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ORD Publications Summary

Environmental Protection Agency, Cincinnati, Ohio

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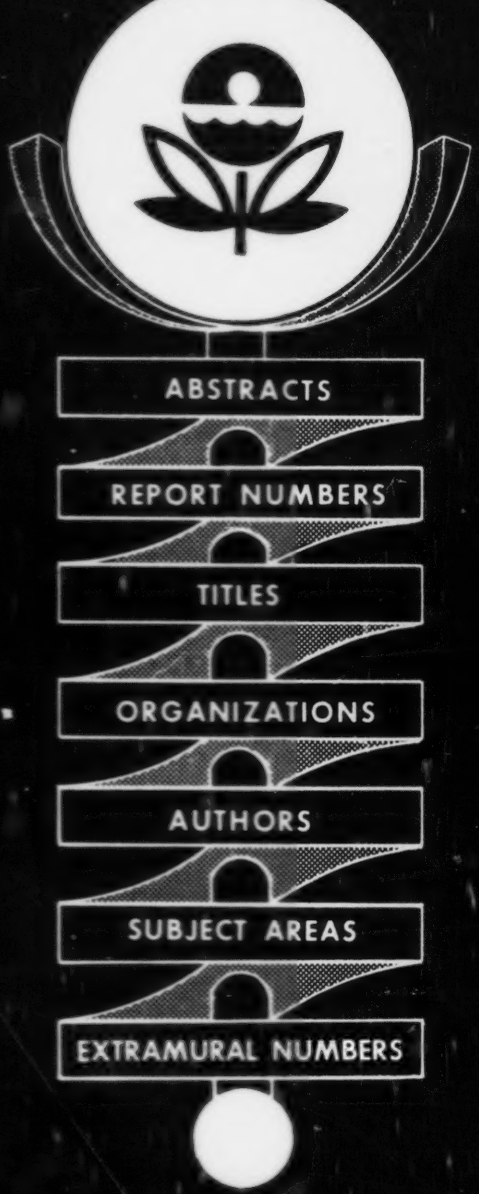
PB 259 965

EPA-600/9-76-013b


ABSTRACTS
REPORT NUMBERS
TITLES
ORGANIZATIONS
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SUBJECT AREAS
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ORD PUBLICATIONS SUMMARY

JUNE 1976

U. S. ENVIRONMENTAL PROTECTION AGENCY
Office of Research and Development
Cincinnati, Ohio 45268

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TECHNICAL REPORT DATA
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1. REPORT NO. EPA-600/9-76-013b	2.	3. RECIPIENT'S ACCESSION NO.
4. TITLE AND SUBTITLE ORD PUBLICATIONS SUMMARY - June 1976		5. REPORT DATE June 1976 6. PERFORMING ORGANIZATION CODE
7. AUTHOR(S) Technical Information Staff		8. PERFORMING ORGANIZATION REPORT NO.
9. PERFORMING ORGANIZATION NAME AND ADDRESS U.S. Environmental Protection Agency Office of Research and Development Cincinnati, OH 45268		10. PROGRAM ELEMENT NO. 1RW103 11. CONTRACT/GRANT NO. In-house
12. SPONSORING AGENCY NAME AND ADDRESS (Same as Above)		13. TYPE OF REPORT AND PERIOD COVERED Publications Summary 1973-1976 14. SPONSORING AGENCY CODE EPA-ORD

15. SUPPLEMENTARY NOTES

16. ABSTRACT

This summary is a current listing of the Office of Research & Development's final reports on in-house, grant, contract, and interagency projects. Reports are indexed by Title, Subject Area, Performing Organization, Personal Author, Report Number, and Grant, Contract, or Interagency Agreement Number to aid the reader in identifying reports of interest. Instructions on how to order copies of reports are on the inside of the front cover.

17. KEY WORDS AND DOCUMENT ANALYSIS

a. DESCRIPTORS	b. IDENTIFIERS/OPEN ENDED TERMS	c. COSATI Field/Group
Summaries Technical reports Research projects Corporate authors Information retrieval Library Science Bibliographies		05B
18. DISTRIBUTION STATEMENT Available to the Public	19. SECURITY CLASS (This Report) Unclassified	21. NO. OF PAGES 263
	20. SECURITY CLASS (This page)	22. PRICE $9.00 - 3.00

i

EPA Form 2220-1 (9-73)

☆ U.S. GOVERNMENT PRINTING OFFICE: 1976—657-695/6107

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ATTENTION

On June 29, 1975, the Office of Research and Development (ORD) was officially reorganized. One of the major impacts of this reorganization was to eliminate the former National Environmental Research Center (NERC) management structure for field operation and establish 15 individual laboratories which report directly to headquarters. As a result, the report number prefixes formerly associated with the NERC's have been replaced by one prefix (600) which represents all of ORD technical reports. Any questions arising from this report number change may be directed to the Technical Information Staff, Cincinnati, Ohio 45268, telephone 513/684-7281.

SEE INSIDE OF FRONT COVER FOR "HOW TO ORDER" REPORTS

FOREWORD

This is the sixth issue of the Office of Research and Development's (ORD's) quarterly **ORD PUBLICATIONS SUMMARY**. This **Summary** is intended to provide a current listing (since July 1973) of ORD's final reports on in-house, grant, contract, and interagency projects. A New Report Abstracts Section is included in the **Summary** to provide brief abstracts of recently printed reports, as well as indices by Title, Subject Area, Performing Organization, Personal Author, Report Number, and Grant, Contract, or Interagency Agreement Number to aid the reader in identifying reports of interest. Instructions on how to order copies of reports are on the inside of the front cover. Comments on how this **Summary** would serve the reader more effectively would be appreciated.

WK Talley

Wilson K. Talley
Assistant Administrator for
Research and Development

SERIES DESCRIPTION

The U.S. Environmental Protection Agency (EPA) was formed in late 1970 from programs in several executive agencies, i.e., the Department of Health, Education, and Welfare (air pollution, solid waste, radiation, water hygiene, and noise), the Department of the Interior (water pollution), and the Department of Agriculture (pesticide regulation). In July 1972, EPA's Office of Research and Monitoring (now Office of Research and Development, ORD) established an office-wide series of designations within which each research report would be published. The series can be used to describe the general thrust of EPA research and development and also to aid in identifying the use for each report. The present numbering system and cover color for each report is keyed to this Series Description.

SERIES 1 – ENVIRONMENTAL HEALTH EFFECTS RESEARCH (yellow covers)

Assigned to Series 1 are projects and studies relating to human tolerances for harmful substances or conditions, generally assessed from a health effects viewpoint. In addition to toxicology and other medical specialties, study areas include physiological or psychological studies, and the development of biomedical instrumentation.

SERIES 2 – ENVIRONMENTAL PROTECTION TECHNOLOGY (light blue covers)

Series 2 includes research performed to develop and demonstrate instrumentation, equipment, and methodology to repair or prevent environmental degradation from point and nonpoint sources of pollution. This work provides the new or improved technology necessary to control and treat pollution sources to meet environmental quality standards.

SERIES 3 – ECOLOGICAL RESEARCH (light green covers)

Series 3 includes investigations of the long- and short-term effects of pollutants on plants, animals, and materials. Research includes formation, transport, and pathway studies to determine the fate and effects of pollutants to provide the basis for setting standards to minimize pollution effects on aquatic, terrestrial, and atmospheric environments.

SERIES 4 – ENVIRONMENTAL MONITORING (gray covers)

Research conducted to develop new or improved methods, instrumentation, and quality assurance techniques and procedures to accurately identify and quantify environmental pollutants is included in Series 4. Also included are the studies to determine the ambient concentration of pollutants or the variance of pollutants as a function of time and/or meteorological factors.

SERIES 5 – SOCIOECONOMIC ENVIRONMENTAL STUDIES (rust covers)

Series 5 reports document research and development efforts that are related to the socioeconomic impacts of pollution and its abatement. They also cover the potential to use institutional management and regulation action as tools to reduce pollution. Specific areas of investigation might include land use alternatives, economic impact of regulation, planning methods for state and local government offices responsible for pollution abatement, and techniques for determining cost-benefit ratios for alternative pollution abatement options.

SERIES 6 – SCIENTIFIC AND TECHNICAL ASSESSMENT REPORTS (STAR) (dark blue covers)

In Series 6 are assessments of the available scientific and technical knowledge on major pollutants that would be helpful in regulatory decision making or evaluating a major area or completed study. The serie presents objective evaluations of existing knowledge— evaluations that point out its completeness, the validity of its data base and the uncertainties and gaps that may exist. Most reports are multimedia in scope focusing on a single medium only to the extent warranted.

SERIES 7 – INTERAGENCY ENERGY-ENVIRONMENT RESEARCH AND DEVELOPMENT (dark green)

Reports in this series result from the effort funded under the 17-agency Federal Energy-Environmental Research and Development Program. These studies relate to EPA's mission to protect the public health and welfare from adverse effects of pollutants associated with energy systems. The goal of the Program is to assure the rapid development of domestic energy supplies in an environmentally-compatible manner by providing the necessary environmental data and control technology. Investigations include analyses of the transport of energy-related pollutants and their health and ecological effects; assessments and development of control technologies for energy systems; and integrated assessments of a wide range of energy-related environmental issues.

SERIES 8 – "SPECIAL" REPORTS (covers of varying design)

This series is reserved for reports which are intended to meet the technical information needs of specifically targeted user groups. Reports in this series include Problem Oriented Reports, Research Application Reports, and Executive Summary Documents. Typical examples of these reports include state-of-the-art analyses, technology assessments, reports on the results of major research and development efforts, desgign manuals, user manuals, etc.

SERIES 9 – MISCELLANEOUS (covers of various designs)

Series 9 is used for all reports issued by ORD not applicable to one of the series described above.

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USERS' GUIDE

This volume contains an abstract section, a bibliographic section, and six indices. Within each index, reports are cross-referenced to the Bibliographic Section by report number. The bibliographic section and indices are cumulative so you need only refer to the most recent issue for ordering information.

NEW REPORT ABSTRACTS SECTION

This section contains a brief abstract of each recently printed report. An abstract will appear in only one issue so if you need copies of abstracts for reference purposes, you must retain each issue of the **Summary**. If no source is shown in the Bibliographic Section, the report is not yet available. Future issues of the **Summary** will note those reports for which an abstract has been published and indicate the issue in which the abstract appeared; e.g., ---Abstracted 600/9–74–001a---.

BIBLIOGRAPHIC SECTION

In the Bibliographic Section is a numerical listing of reports published since July 1973. The source of each report follows the bibliographic entry, and how to order instructions are given on the inside front cover.

TITLE INDEX

All reports are listed alphabetically by title; "A," "An," and "The" have been dropped from the beginnings of titles.

CURRENT SUBJECT AREA INDEX

This Current Subject Area Index provides a broad subject-matter index; each report is listed once, alphabetically by title, under the Subject Area concerned with the report's research. Reports not falling within a specific area such as bibliographies or annual reports, are listed under Miscellaneous Reports.

PERFORMING ORGANIZATION INDEX

This is an alphabetical listing of the organizations which conducted the research reported on in these reports. For grants or contracts, the organization is the grantee or contractor; for in-house reports, the organization is the EPA laboratory or office.

PERSONAL AUTHOR INDEX

The Personal Author Index lists alphabetically all authors of reports contained in the Bibliographic Section.

GRANT, CONTRACT, INTERAGENCY AGREEMENT NUMBER INDEX

This index contains a listing of ORD Contract, Grant, and Interagency Agreement numbers for which a final report has been produced. For each number listed the applicable report number is cross-referenced.

NEW REPORT ABSTRACTS SECTION

600/1–76–022 **PE 1EA615** **CONTRACT NO. 68-01–2471**

Reliability of Bacterial Mutagenesis Techniques to Distinguish Carcinogenic and Non-carcinogenic Chemicals BY B. Commoner, Washington University, Center for the Biology of Natural Systems St. Louis, MO

This contract conducted investigations to determine the reliability with which an expanded *Salmonella* mutagenesis test system can distinguish between those organic chemical substances that cause cancer in laboratory animals (presumptive carcinogens*) and those that do not (noncarcinogens). The results of such tests of 100 organic compounds (50 presumptive carcinogens and 50 noncarcinogens) are described. In general, the results indicate that the *Salmonella* mutagenesis system that has been employed in these tests can be used to distinguish, with a high degree of reliability, between presumptive carcinogens and noncarcinogens, in populations of test samples in which these two classes of compounds occur in approximately equal proportions. The results also show that the statistical reliability of the test system needs to be improved for the purpose of applying it to environmental samples in which the proportion of active substances (i.e., presumptive carcinogens) may be relatively low. Certain of the results indicate what steps need to be taken to achieve this improvement. *We reserve the use of the word "carcinogens" for those substances which are known to cause cancer in *people*; a "presumptive carcinogen" is a substance known to cause cancer in laboratory animals. EPA CONTACT: McGaughey, R. 8–629–2537

600/1–76–023 **PE 1AA601** **IN-HOUSE PROJECT**

Scientific and Technical Data Base for Criteria and Hazardous Pollutants-1975 ERC/RTP Review Health Effects Research Laboratory, EPA Research Triangle Park, NC

This report is a review and evaluation of the current knowledge of the criteria and hazardous pollutants: oxides of nitrogen; carbon monoxide; hydrocarbons; photochemical oxidants; suspended particulates; sulfur oxides; asbestos; beryllium; and mercury. Primary emphasis is on results achieved from the ERC/RTP research program since publication of the criteria documents, which were used as the data bases for the National Ambient Air Quality Standards. This document is the first in a series of annual reviews to be conducted by the Environmental Research Center in Research Triangle Park, N.C., on the results of on-going research. The document attempts to assess the adverse effects of the criteria and hazardous pollutants on health, vegetation, climate, visibility, and materials. Information on instrumentation, measurement, pollutant characterization, transformation and transport, and control technology for the specific pollutants is also given. EPA CONTACT: Hueter, F. G. 8–629–2266

600/1–76–024 **PE 1AA601** **IN-HOUSE PROJECT**

Regression Using "Hockey Stick" Functions BY V. Hasselblad, J. P. Creason, and W. C. Nelson, Health Effects Research Laboratory, EPA Research Triangle Park, NC

The establishment of criteria for air pollutants requires that a threshold level be established below which no adverse health effects are observed. Since standard dose response curves, such as the logit or probit, assume an effect at all levels, a segmented function was developed. This function has zero slope up to a point, and then increases monotonically from that point. Thus the name "hockey stick" function. The increasing portion need not be linear; any function that can be fitted by "least squares" techniques will work. A method for computing confidence intervals is also given. Since the curve can be used as a dose response curve, some comparisons are made with the more conventional probit and logit curves. In general the fit of the "hockey stick" curve is as good as either the logit or probit curve, even when the data orginate from a logit or probit distribution. EPA CONTACT: Hasselblad, V. 8–629–2389

600/1–76–025 **PE 1EA615** **IN-HOUSE PROJECT**

Pesticide Induced Delayed Neurotoxicity – Proceedings of a Conference BY R. L. Baron, Health Effects Research Laboratory, EPA Research Triangle Park, NC

A delayed neurotoxicity syndrome, shown to be induced by certain organophosphorus esters, was first reported almost 50 years ago. The 1975 Guidelines for Registering Pesticides in the United States reflect a continuing concern for this problem in the recommendations made for evaluating the delayed neurotoxicity hazard associated with organophosphate pesticide use. This conference was designed to bring together those individuals interested in the organophosphorus-ester-induced neurotoxicity syndrome to stimulate discussions and to evaluate the latest scientific results. With the aid of formal and informal presentations, new pathways for investigation are becoming apparent which may lead to the understanding and elimination of this problem. EPA CONTACT: Baron, R. L. 8–629–2326

NEW REPORT ABSTRACTS SECTION

600/2-76-032d PE 1AB015 ROAP/TASK 21 AXM 071 CONTRACT NO. 68-02-1874

Source Assessment: Phthalic Anhydride BY R. W. Serth, and T. W. Hughes, Monsanto Research Corporation Dayton, OH

The report gives results of an analysis of atmospheric emissions from ortho-xylene- and naphthalene-based phthalic anhydride manufacturing plants. Uncontrolled and controlled emission factors are given for each species emitted to the atmosphere from each source within a typical plant, based on the latest data available. Emissions data are used to calculate three factors designed to quantify the hazard potential of the emissions: (1) source severity (the ratio of maximum mean groundlevel concentration of a pollutant to the concentration which constitutes an incipient health hazard), (2) the industry contribution to total atmospheric emissions of criteria pollutants, and (3) the population exposed to high contaminant levels from a representative plant. Detailed process descriptions and flow sheets are presented for the BASF fixed-bed ortho-xylene process and the Badger-Sherwin-Williams fluid-bed naphthalene process. Present and future aspects of pollution control technology in the industry are discussed, including a number of possible process modifications. Economic and production trends in the phthalic anhydride industry and in each of the industries that are major consumers of phthalic anhydride are analyzed. EPA CONTACT: Denny, D. A. 8-629-2547

600/2-76-032e PE 1AB015 CONTRACT NO. 68-02-1874

Source Assessment: Severity of Stationary Air Pollution Sources—A Simulation Approach BY E. C. Eimutis, B. J. Holmes, and L. B. Mote, Monsanto Research Corporation Dayton, OH

The report gives results of a study simulating the establishment of the severity of stationary air pollution sources. The potential environmental impact of an emission source can be determined from the source severity (the ground level concentration contribution of pollutants relative to some potentially hazardous concentration of the same species). The frequency distribution of the severity of well-documented source types can be examined deterministically. A statistical approach is required to simulate the frequency distribution of the severity of source types that are complex or involve a large number of emission points in order to ultimately assess such sources. A Monte Carlo simulation technique is described in this report, together with efficient algorithms for fitting the inverse Weibull, gamma, normal, and log-normal cumulative density functions. Significant correlation is demonstrated between deterministic and simulated severity results using coal-fired steam/electric utilities as an example. EPA CONTACT: Denney, D. A. 8-629-2547

600/2-76-051f PE 1AB015 ROAP/TASK 21 AFH 025 CONTRACT NO. 68-02-1319

Environmental Catalog of Industrial Processes; Volume VI— Lime, Clay, Mica, Cement, Phosphate Rock and Basic Fertilizer Materials, and sulfur, sulfur Oxides, and Sulfuric Acid BY T. Parsons, and G. E. Wilkins, Radian Corporation Austin, TX

The catalog was developed to aid in defining the environmental impacts of industrial activity in the U.S. Entries for each industry are in consistent format and form separate chapters of the catalog. The Lime Industry (six process descriptions, a process flow chart, and a chemical tree) involves the production of lime and limestone. The Clay Industry (nine process descriptions, a chemical tree, and two flowsheets) involves brickmaking and the mining and beneficiation of clay. The Mica Industry (nine process descriptions, two flowsheets, and a chemical tree) involves the mining, beneficiation, and processing of mica. The Cement Industry (six process descriptions, a chemical tree, and a flowsheet) involves the production of silicate-aluminate-ferrite materials which form concrete when mixed with water and aggregates. The Phosphate Rock and Basic Fertilizer Materials Industry (54 process descriptions, eight flow charts, and a chemical tree) involves the production of finished fertilizers, intermediates for fertilizers, and products other than fertilizer materials from phosphate rock. The Sulfur, Sulfur Oxides, and Sulfuric Acid Industry (11 descriptions on two process flowsheets) involves the production of sulfur, sulfur oxides, and sulfuric acid. EPA CONTACT: Tucker, C.

600/2-76-096 PE 1AA010 CONTRACT NO. 68-02-1748

Collection Efficiencies of Stack Sampling Systems for Vanadium Emissions in Flue Gases BY M. L. Goldstein, and C. W. Siegmund, Exxon Research and Engineering Company Linden, NJ

An experimental program has been conducted to measure and compare the efficiency of two stack sampling systems to collect vanadium-bearing particulate emissions in flue gas. One sampling system was EPA's Method 5, the other was developed by Exxon Research and Engineering Company for specialized in-house studies. To evaluate collection efficiency, an extensive factorial study was carried out in a 50 hp four-pass firetube boiler burning typical residual fuel oils. In each test the sampling systems were operated simultaneously in the stack to collect the vanadiumbearing particulate emissions. Three residual fuel oils were tested: two Venezuelan (359 and 149 ppm V) and one Arabian (39 ppm V). A vanadium balance was established for each experiment by inventorying both the particulates remaining in the boiler. Test variables, in addition to the sampling systems and fuel oils, also included two combustion residence times and two sampling probe locations. The results of the study show that vanadium collection efficiency depends on two variables: combustion residence time and sampling system. For both systems efficiency decreases as combustion residence time increases, which results in a particulate size distribution shift to the submicron range. Where particulate emissions are in the coarse size range, collection efficiency in both sampling systems is almost quantitative. The oxidation states of vanadium in fuel oil emissions are briefly discussed. EPA CONTACT: *Cheney, J. L. 8-629-2892*

NEW REPORT ABSTRACTS SECTION

600/2–76–097   PE 1AB013   CONTRACT NO. 68–02–1318

Feasibility of a Heat and Emission Loss Prevention System for Area Source Furnaces BY R. A. Brown, C. B. Moyer, and R. J. Schreiber, Aerotherm/Acurex Corporation Mountain View, CA

The report gives results of a brief study to determine the feasibility of candidate concepts for simultaneous heat and air pollutant recovery from the exhaust of domestic-size furnaces. Among the concepts investigated were improved heat exchanger design, vent dampers and heat pipes, and post-combustion emission control devices such as filters and wet scrubbers. EPA CONTACT: Steen, W. B. 8–629–2825

600/2–76–098a   PE 1AB014   CONTRACT NO. 68–02–1360

Burner Design Criteria for Control of NO_x from Natural Gas Combustion; Volume I – Data Analysis and Summary of Conclusions BY D. R. Shoffstall, IIT Center, Institute of Gas Technology Chicago, IL

Volume I of the report gives details of, and analyzes, trials conducted with natural gas to determine the relationship between combustion aerodynamics and pollution emission characteristics of industrial burners. Three burner types were studied (kiln, ported baffle, and movable vane boiler), based on relative gas load and estimated total industrial emissions. Experimental measurements on a pilot-scale furnace included baseline characterization of each burner and variation of primary operating parameters (air preheat, air/fuel ratio, firing rate, heat release rate, position of gas nozzle in burner block, and air swirl intensity). Additional emissions data were gathered for suspected control conditions (fuel injector design, flue gas recirculation, fuel/air momentum ratio, and burner block angle). It also describes in detail the experimental facility and sampling probes used to collect the data. Volume II discusses completely the procedure used to select the test burners. It includes detailed flame characterizations of baseline operations assembled from in-the-flame temperature, gas species, and flow direction data analysis. Similar in-the-flame studies were made for control conditions which minimized emissions for each burner type. It also includes all raw data collected from the input/output trials. EPA CONTACT: Lachapelle, D. G. 8–629–2236

600/2–76–098b   PE 1AB013   ROAP/TASK 21 BCC 029   CONTRACT NO. 68–02–1360

Burner Design Criteria for Control of NO_x from Natural Gas Combustion; Volume II – Raw Data and Experimental Results BY D. R. Shoffstall, IIT Center, Institute of Gas Technology Chicago, IL

Volume I of the report gives details of, and analyzes, trials conducted with natural gas to determine the relationship between combustion aerodynamics and pollution emission characteristics of industrial burners. Three burner types were studied (kiln, ported baffle, and movable vane boiler), based on relative gas load and estimated total industrial emissions. Experimental measurements on a pilot-scale furnace included baseline characterization of each burner and variation of primary operating parameters (air preheat, air/fuel ratio, firing rate, heat release rate, position of gas nozzle in burner block, and air swirl intensity). Additional emissions data were gathered for suspected control conditions (fuel injector design, flue gas recirculation, fuel/air momentum ratio, and burner block angle). It also describes in detail the experimental facility and sampling probes used to collect the data. Volume II discusses completely the procedure used to select the test burners. It includes detailed flame characterizations of baseline operations assembled from in-the-flame temperature, gas species, and flow direction data analysis. Similar in-the-flame studies were made for control conditions which minimized emissions for each burner type. It also includes all raw data collected from the input/output trials. EPA CONTACT: Lachapelle, D. G. 8–629–2236

600/2–76–099   PE 1AB015   CONTRACT NO. 68–02–1323

Larry-Car-Free Charging of Coke Ovens BY J. Varga Jr., Battelle Columbus Laboratories Columbus, OH

The report discusses advantages of preheating coal before charging it into coke ovens, as an introduction to the use of charging systems that do not use larry cars. Two larry-car-free systems are discussed. A third system, which uses a larry car for charging preheated coal, is also discussed to provide more complete coverage of the charging of preheated coal. The two larry-car-free charging systems offer good possibilities for eliminating emissions generated during the usual method of charging coke ovens with larry cars. (The report responds to Item AM-2–2 of the Protocol of the First Working Meeting of the USA/USSR Task Force on Abatement of Air Pollution from the Iron and Steel Industry.) EPA CONTACT: McCrillis, R. C. 8–629–2557

600/2–76–100   PE 1AB012   GRANT NO. 803278

University of Washington Electrostatic Spray Scrubber Evaluation BY M. J. Pilat, and D. F. Meyer, Washington, University of Seattle, WA

The report gives results of an evaluation of the effectiveness of a 1700 cu m/hr (1000 cfm) portable electrostatic spray scrubber in controlling fine particle emissions. The multiple-pass scrubber, designed, constructed, and tested by the University of Washington, combines oppositely charged aerosol particles and water droplets in two water spray towers. Negatively energized aerosol charging sections (coronas) precede each spray tower. The pilot plant was tested on artificially generated dioctyl phthalate (DOP) aerosol and on emissions from a pulverized coalfired boiler. Collection of a 0.5 micron diameter DOP particle ranged from 10.0 to 99.8%. The 10% test was conducted with all high voltage sources inactive. The overall mass collection efficiency for the two DOP tests was 24.98% and 99.6%, respectively. The boiler emission tests showed a collection efficiency for a 0.5 micron diameter particle ranging from 47.0% to 98.0%. Conditions during the 47.0% test included a low water spray rate. Because of the relatively large inlet size distribution, the overall mass collection efficiency decreased only from 99.58% to 96.09% for the two boiler emission tests. EPA CONTACT: Harmon, D. L. 8–629–2925

NEW REPORT ABSTRACTS SECTION

600/2–76–101 PE 1AB013 CONTRACT NO. 68–02–0629

Evaluation of Pollution Control in Fossil Fuel Conversion Processes: Final Report BY E. M. Magee, Exxon Research and Engineering Company Linden, NJ

The review gives an overview of work, between June 1972 and January 1976, on various environmental aspects of fossil fuels. Details of this work is presented in 14 reports published during this same period. The details include potential pollutants in fossil fuels; quantities of solid, liquid, and gaseous effluents from coal treatment and conversion to gaseous and liquid fuels; and an analytical test plan for coal conversion systems. The overview report discusses commonality and differences in the reviewed processes with emphasis on factors which might effect the environment when the processes are in commercial use. Due to lack of a sufficient data base, data and research and development needs are also addressed. EPA CONTACT: Rhodes, W. J. 8–629–2851

600/2–76–102 PE 1AB013 ROAP/TASK 21 BBZ 006 CONTRACT NO. 68–02–1843

Environmental Aspects of Retrofitting Two Industries to Lowand Intermediate-Energy Gas from Coal BY D. A. Ball, A. A. Putnam, D. W. Hissong, J. Varga, B. C. Hsieh, J. H. Payer, and R. E. Barrent, Battelle Columbus Laboratories Columbus, OH

The report gives results of an analysis of the constraints and environmental impact of converting selected industries to low- and intermediate -energy gas from coal. Two target industries, the secondary steel industry and the petroleum refining industry, were selected for analysis. A hypothetical model plant was developed for each target industry and characterized as to layout, energy use, combustion process characteristics, and relation to the respective target industry as a whole. A gasifier and gas-cleaning system combination was selected for each model plant and sized to provide sufficient low- or intermediate-energy gas to replace the model plant's requirement for natural gas and oil. Material and energy balances were made for each model plant, and the constraints involved in process modification, along with the potential environmental impact, were evaluated. EPA CONTACT: Rhodes, W. J. 8–629–2851

600/2–76–105 PE 1BC611 CONTRACT NO. 68–03–0442

Economic Analysis of the Environmental Impact of Highway Deicing BY D. M. Murray, and U. F. W. Ernst, ABT Associates, Inc. Cambridge, MA

This study involves an analysis of the cost of damages that result from the use of salt (sodium chloride and calcium chloride) on highways to melt snow and ice. A large literature search and several surveys were carried out in order to determine the types and extent of damages that have occurred. The report contains over 320 references. An in-depth analysis was performed on all of the data obtained. The major cost sectors examined were: Water supplies and health, vegetation, highway structures, vehicles, and utilities. For each of the sectors a cost estimate was developed. The total annual national cost of salt related damage approaches $3 billion dollars or about 15 times the annual national cost for salt purchase and application. While the largest costs result from damage to vehicles, the most serious damage seems to be the pollution of water supplies and the degradation of health which may result. It is particularly difficult to assign costs in this latter area and therefore the estimate may substantially understate the actual indirect cost to society. These findings indicate that the level of salt use should be reduced. The amount of the reduction should be determined on the basis of local conditions. EPA CONTACT: Masters, H. 8–342–3541

600/2–76–106 PE EHE623 GRANT NO. 14010 HIN

Tioga River Mine Drainage Abatement Project BY A. F. Miorin, R. S. Klingensmith, and R. E. Heizer, Gannett Fleming Corddry and Carpenter, Inc. Harrisburg, PA

The Tioga River Demonstration Project in southeastern Tioga County, Pennsylvania, is essentially defined by an isolated pocket of coal that has been extensively deep and strip mined within the Pennsylvania Bituminous Coal Field. The Tioga River watershed is subjected to acid mine drainage from abandoned mines in the vicinity of the Borough of Blossburg and the Village of Morris Run. The proposed demonstration project is recommended: (1) to demonstrate effective techniques for mine drainage abatement, (2) to reduce a specific mine drainage problem, and (3) to restore portions of a mined area to their approximate original surface grade. Techniques to be demonstrated include: restoration of strip pits utilizing agricultural limestone and sewage sludge as soil conditioners, burial of acid-forming materials within strip mines that are to be restored, and reconstruction and lining of a stream channel. EPA CONTACT: Harris, E. F. 8–684–4417

600/2–76–107 PE 1BB040 CONTRACT NO. 14–16–005–

Investigation of Acid Mine Drainage Effects on Reservoir Fishery Populations BY A. Benson, West Virginia University Morgantown, WV

A limnological, water quality and quantity and lake fluction, transparency, and ice cover study was made of the Tygart Lake, West Virginia, and its tributaries. The watershed of this lake has been extensively mined for coal and acid mine drainage(AMD) is discharged throughout the area. The significant sources of AMD were found to be the Tygart River and Sandy Creek. Net changes in lake depth were 14–16 meters, and the maximum change 22 meters. Transparency depth ranged from 0.1 m in December to 7.5 m in the summer. The major factors related to the development of acidity grandients in Tygart Lake were found to be (1) hydrological characteristics including inflow, outflow, and the operational interaction between the inflow and outflow resulting in storage or drawdown, (2) thermal relationships including the spring warming cycle, thermal stratification during the summer, the autumnal cooling cycle, and the winter thermal minimim and (3) water chemistry including the existing chemical stratification or its lack at the beginning of a seasonal period and the chemical quality of inflow. EPA CONTACT: Hill, R. D. 8–684–4410

NEW REPORT ABSTRACTS SECTION

600/2-76-108 PE EHE623 GRANT NO. 801276

Debris Basins for Control of Surface Mine Sedimentation Kentucky Department for Natural Resources and Conservation Frankfort, KY

This report presents the feasibility for demonstration of the effectiveness of debris basins in controlling solids in water discharging from surface mine operations. Two sites in Eastern Kentucky were selected for study in areas where very little erosion-causing activity has occurred and where surface mining is to be initiated. Adjacent "virgin" watersheds were also selected for each study site to provide background data on water quality where man's activities have been very limited. Pertinent site information including flow and water quality data was gathered. This study indicates the necessity for conducting the demonstration and develops a recommended procedure. EPA CONTACT: Martin, J. F. 8-684-4417

600/2-76-109 PE 1BB041 ROAP/TASK 21 AVN 021 CONTRACT NO. 68-01-0099

Development of a Mobile Treatment System for Handling Spilled Hazardous Materials BY M. K. Gupta, ENVIREX, Inc. Milwaukee, WI

This report documents the results of a laboratory test program undertaken to define the treatment processes for the development of a modular transportable treatment unit for an on-site handling of spilled hazardous materials in aqueous solutions. The hazardous materials evaluated during this study were selected based on the priority ranking system developed by EPA. Nine materials evaluated for treatment by chemical reaction, clarification and activated carbon adsorption were: acetone cyanohydrin, acrylonitrile, ammonia, chlorinated hydrocarbons, chlorine, methanol, phenol, tetraethyllead (TEL) and tetramethyllead (TML). Several additional materials listed in the report were evaluated for treatment feasibility by reverse osmosis. The results of the laboratory tests indicated that the unit treatment processes of chemical reaction, flocculation, sedimentation, granular media filtration and activated carbon adsorption would form the most suitable and versatile system for an on-site removal and treatment of hazardous materials. A 12.6 1/sec (200 gpm) mobile treatment system consisting of the above-mentioned processes was built based on the design data outlined in this report. This treatment vehicle is now ready and available for response to an actual or test spill and should be used at the earliest possible application opportunity. EPA CONTACT: LaFornara, J. F. 8-342-7523

600/2-76-110 PE EHE623 GRANT NO. 801353

Feasibility Study Deer Park Daylighting Project BY A. R. Richardson, and M. T. Dougherty, Ackenheil and Associates, Inc. Pittsburgh, PA

The study was performed to determine the technical and economic feasibility of daylighting abandoned deep coal mines as a method to abate acid mine drainage by employing common surface mining and backfilling techniques. Data on the present water quality of Lost Run, Garrett County, Maryland were obtained and used for the evaluation of using daylighting as a method to improve water quality. Other criteria were thickness, quality and amount of coal in-place. A mining and reclamation plan was developed for the daylighting. This plan was devised based on the acidity of overburden material, the estimated coal in-place, and erosion control methods to reduce siltation. The feasibility study results indicate this demonstration project would be technically and economically feasible and that reclamation would effectively produce usable land and improve water quality. The estimated cost of the demonstration project is about $500,000 for a 70 acre (28 hectare) site. The major obstacle in implementing the project is acquiring rights, easements and methods of awarding contracts. EPA CONTACT: Grim, E. C. 8-684-4417

600/2-76-111 PE EHE623 GRANT NO. 14010 GCM

Evaluation of Surface Mine Reclamation Techniques – Campbell's Run Watershed Pennsylvania BY M. T. Dougherty, and H. H. Holsen, Ackenheil and Associates, Inc. Pittsburgh, PA

A study was performed to demonstrate the effectiveness of surface reclamation of strip mined land upon water quality in streams receiving mine drainage pollution from abandoned underground mines. The water quality was monitored in three phases, prior to the surface reclamation, during reclamation, and after reclamation. The results were then evaluated to determine any improvement in water quality resulting from the constructin of the abatement facilities. Fifty-two acres (21 hectares) of abandoned strip mined land were regraded and revegetated to reduce infiltration to the spoil zone and to the deep mine complex. The reclamation was completed at a cost of $131,650. The results of the collection and sampling of stream samples over a three year period indicated that the pH and acidity of Campbell's Run had improved and that the acid load had decreased 43% at the mouth of Campbell's Run. However, this improvement could not be directly attributed to the surface reclamation projects. The improvement was determined to be more directly related to the construction of residential and commercial establishments, to the construction of U.S. Interstate 79, and to natural fluctuations in mine pool levels and runoff rates. EPA CONTACT: Hill, R. D.

NEW REPORT ABSTRACTS SECTION

600/2-76-114 PE 1BB040 GRANT NO. 14010 FWW

Trough Creek Limestone Barrier Installation and Evaluation BY S. C. Yocum, Africa Engineering Associates, Inc. Huntingdon, PA

Six prototype crushed limestone barrier installations were constructed in Trough Creek in South Central Pennsylvania to demonstrate the neutralizing ability of this type structure in low-iron acidic streams. Limestone barrier performance was excellent during periods of low streamflow, in terms of reducing acidity and raising the pH of the water, but their effectiveness was marginal at design or average streamflow, and they were ineffective when high runoffs were experienced. Limestone barrier performance deteriorates after the structures are initially constructed and placed in operation, because progressive accumulations of sediment clog interstices between the stones, which lessens the hydraulic conductivity of the barriers, and surfaces of the stones become coated with silt, which causes a reduction in reactivity of the reagent (limestone) with flowing acidic water. The design of limestone barriers should take these factors into account, and the units should be sized sufficiently large to overcome this deficiency. Silted limestone barriers can be restored to porous filtering beds, approximately equal in performance to initial efficiency, by washing and rehandling the crushed limestone materials. EPA CONTACT: Martin, J. F. 8-684-4417

600/2-76-115 PE 1BC611 CONTRACT NO. 68-03-2121

Passive Flow Measurement System for Storm and Combined Sewers BY K. M. Foreman, Grumman Aerospace Corporation Bethpage, NY

This investigation concerns a new, nonintrusive, low cost, passive flow measurement method to meet the urgent needs for good management of storm and combined sewer systems. Operation of the system is based on sensing the near field sound emitted by the disturbed flow at a channel discontinuity. These local pressure pulses are called pseudosound and radiate as dipole sound sources orthogonal to the flow direction. The output signal of passive transducers, such as accelerometers, attached to the outer wall of the channel indicates flow rate after processing by a Fourier Analyzer. Feasibilty has been demonstrated by laboratory tests using full scale sewer pipe elements, and by a brief series of field tests measuring sanitary sewage flow. Recommendations are made for further field site testing using an instrumented sewer line. EPA CONTACT: Masters, H. E. 8-342-7541

600/2-76-116 PE 1BC611 CONTRACT NO. 68-03-0302

Urban Stormwater Runoff – Determination of Volumes and Flowrates BY V. T. Chow, and B. C. Yen, Illinois, University of Urbana, IL

An investigation is made to (a) develop a method of depth-duration-frequency analysis for precipitation events having short return period (high frequency) for urban storm water runoff management and control purposes; (b) develop a new high accuracy urban stormwater runoff determination method which when verified, can be used for projects requiring high accuracy detailed runoff results and can also be used as the calibration scale for the less accurate urban runoff prediction methods; and (c) compare and evaluate selected urban stormwater runoff prediction methods. The eight methods evaluated are the rational method, unit hydrograph method, Chicago hydrograph method, British Transport and Road Research Laboratory method, University of Cincinnati Urban Runoff method, Dorsch Hydrograph Volume method, EPA Storm Water Management Model, and Illinois Urban Storm Runoff method. The comparison and evaluation is done by using four recorded hyetographs of the Oakdale Avenue Drainage Basin in Chicago to produce the predicted hydrographs by the methods and the results are compared with recorded hydrographs. The relative merits of the methods are discussed and recommendations are made. EPA CONTACT: Field, R. 8-342-7503

600/2-76-118 PE 1AB012 ROAP/TASK 21 ADJ 037 CONTRACT NO. 68-02-1869

Cascade Impactor Calibration Guidelines BY S. Calvert, C. Lake, and R. Parker, A.P.T., Inc. San Diego, CA

The report contains guidelines for routine calibration of cascade impactors. The basic calibration technique discussed in the report involves generating uniformly sized particles, testing individual stages, determining particle number concentrations by light scattering, and calculating efficiencies for given test parameters, Each component of the technique is discussed. The results of calibrations of three cascade impactors and comparisons with published studies are presented. EPA CONTACT: Sparks, L. E. 8-629-2925

600/2-76-119 PE 1AB013 ROAP/TASK 21 BAV 006 CONTRACT NO. 68-02-1322

Effect of Equipment Maintenance and Age on Sulfuric Acid Plant Emissions BY E. L. Calvin, and F. D. Kodras, Catalytic, Inc Charlotte, NC

The report describes the effect of equipment maintenance and age on emissions from single- and dual-absorption sulfuric acid plants, using both elemental sulfur and recycled sulfur-containing acid sludge feedstock. A description is included of the critical equipment, manufacturer's recommended maintenance data, and malfunction history from 20 sulfuric acid plants. From this data, a recommended preventive maintenance program is provided for the critical equipment. A checklist is provided for an inspector to use in evaluating maintenance in an operating plant. EPA CONTACT: Hendricks, R. V. 8-629-2557

NEW REPORT ABSTRACTS SECTION

600/2-76-120 PE 1AB015 ROAP/TASK 21 AFA 106 CONTRACT NO. 68-02-1324

Control Technology for Asphalt Roofing Industry BY P. G. Gorman, Midwest Research Institute Kansas City, MO

The report gives results of evaluations of the technical and economic feasibility of candidate control methods which may be capable of 99% removal of total hydrocarbons (HC) emitted from asphalt-saturating and air-blowing operations in asphalt roofing plants, sources of HC emissions for which control technology has not been well characterized. The evaluations were based on information from the literature, theoretical analyses of control systems, and contacts with equipment manufacturers and plant operators. An industry survey showed that thermal incinerators or afterburners are currently the only technique used to control air-blowing emissions. Control techniques for saturator emissions include afterburners, wet scrubbers, high efficiency air filters (HEAF's), and electrostatic precipitators (ESP's). Theoretical analysis of candidate control systems indicated that thermal afterburners, HEAF's, and ESP's could remove 99% of the particulates, but it is doubtful that wet scrubbers could achieve 99% removal. Futher device evaluation, to identify candidate devices to be recommended for more research and development, showed that afterburners are already well developed and should be capable of 99% removal; but they cost much more than HEAF's and ESP's and fuel availability could constrain widespread use. The report recommends that pilot scale HEAF's and wet ESP's be tested on an air-blowing source. EPA CONTACT: Wooldridge, E. J. 8-629-2547

600/2-76-121 PE 1AB015 ROAP/TASK 21 BBZ 012 CONTRACT NO. 68-02-1318

Feasibility of a Direct Contact Heat and Emission Loss Prevention System for Area Source Furnaces BY R. J. Schreiber, and G. G. Poe, Aerotherm/Acurex Corporation Mountain View, CA

The report gives results of a brief study to determine the feasibility of a retrofit device for recovering emissions and waste heat from the fuel of a residential furnace. The device resembles a small wet scrubber and collects virtually all of the oil-fired furnace's particulate, NO_2, SO_3, and UHC, as well as increasing the unit's efficiency to greater than 95%. The payback period is highly dependent on fuel cost. A laboratory test program is recommended to determine operating characteristics. EPA CONTACT: Steen, W. B. 8-629-2825

600/2-76-122 PE 1AB015 ROAP/TASK 21 ACX 094 CONTRACT NO. 68-02-1411

Technical Manual for Process Sampling Strategies for Organic Materials BY W. Feairheller, P. J Marn, D. H. Harris, and D. L. Harris, Monsanto Research Corporation Dayton, OH

The manual describes sampling approaches for conducting Level I, II, and III environmental source assessment surveys of the feed, product, and waste streams associated with the production of organic materials. Level I provides large quantities of sample in a short time period for both analysis of the chemical classes of compounds present and biological testing programs. Level II is a more detailed qualitative and quantitative chemical analysis of the organic components. Level III is a quantitative study of the effect of process variables on the emission rates of specific organic materials. The manual: provides specific methods to be used in Level I to obtain samples from stationary sources, fugitive emission sources, and process and waste streams (including gas, liquid, and solid phases); and provides the current state-of-the-art, an extension of the state-of-the-art sampling methods that are available for application to Level II and III studies. The manual is directed to those who are basically experienced in sampling techniques and will be required to apply these methods in source assessment programs. EPA CONTACT: Johnson, L. D. 8-629-2557

600/2-76-124 PE 1AB015 ROAP/TASK 21 AXM 073 CONTRACT NO. 68-02-1404

Sampling of Automobile Interiors for Vinyl Chloride Monomer BY W. R. Feairheller, J. T. Cheng, R. J. McCormick, and W. A. Lewis, Monsanto Research Corporation Dayton, OH

The report gives results of a study to qualitatively identify organic pollutants in the air inside new automobiles. (In recent years, concern has developed over the concentration of organic vapors inside new automobiles.) A literature search first identified numerous volatilization products from plastics used in the construction of automobile interiors. Charcoal tubes were used to collect air samples in seven test vehicles. Vinyl chloride monomer concentrations of 0.4 and 1.2 ppm were detected in two vehicles. Tenax GC tube samplers were used to collect samples to identify other organic volatilization products. Mass spectrometer analysis of the Tenax GC tube samples identified eight compounds present inside the test vehicles, none of which is listed by NIOSH as a suspected carcinogen. EPA CONTACT: Oestreich, D. K. 8-629-2547

600/2-76-125 PE 1AB012 ROAP/TASK 21 ADL 029 CONTRACT NO. 68-02-1453

Application of Foam Scrubbing to Fine Particle Control—Phase I BY T. E. Ctvrtnicek, T. F. Walburg, C. M. Moscowitz, and H. H. S. Yu, Monsanto Research Corporation Dayton, OH

The report summarized knowledge and data obtained during the first phase of investigations into foam scrubbing. It gives detailed information concerning foam scrubber theory, experimentation, and economics. The theory pertains to mechanisms influencing the behavior of fine particles and the possibilities of their capture by foam. Collection efficiencies obtained on a bench scale foam scrubber show that foam scrubbing can be a viable fine particle control device. Preliminary economic analysis indicates that foam scrubbing can be competitive with other fine particle collection devices if the surfactant solution is recycled effectively. The report recommends that surfactant recycle be verified, using a bench scale foam scrubber. EPA CONTACT: Ramsey, G. H. 8-629-2298

NEW REPORT ABSTRACTS SECTION

600/2-76-126 PE 1AA010 IAG NO. IAG-100(D)

Development of Thin Calibration Standards for X-Ray Fluorescence Analysis BY P. A. Pella, E. C. Kuehner, and W. A. Cassatt, National Bureau of Standards Washington, DC

Particulate reference samples have been prepared for the standardization of X-ray fluorescence spectrometers used in the analysis of air particulate matter. Uniform layers of reground orchard leaves of known composition, i.e., National Bureau of Standards' Standard Reference Material 1571, were deposited on membrane filters and coated with a thin polymer film for protection against abrasion and moisture. These samples have been prepared with mass per unit area of 0.1 to 5.0 mg/cm^2. EPA CONTACT: Dzubay, T. G. 8-629-2445

600/2-76-130 PE B458 ROAP/TASK 21 BJV 038 CONTRACT NO. 68-02-1323

Reductant Gases for Flue Gas Desulfurization Systems BY D. W. Hissong, K. S. Murthy, and A. W. Lemmon Jr., Battelle Columbus Laboratories Columbus, OH

The report gives results of a study of the use of coal or residual-oil gasification to produce a hydrogen/carbon monoxide-rich gas for use as a reductant for regenerable flue gas desulfurization (FGD) processes. Two different reduction systems are considered: one for the type of FGD process that produces a concentrated SO_2 stream: the other, for the type that uses a liquid-phase Claus reactor. Detailed data on the composition of the raw gas from several gasifiers are analyzed. To supplement the data on trace constituents in the gas, thermodynamic calculations were made to determine the equilibrium gas-phase concentrations for a typical coal and typical gasification conditions. Mass transfer was calculated to determine the extent to which certain gaseous species could be removed by waterwashing of the gas. The effects of the remaining trace constituents on the components of the reduction systems are analyzed. Additional research on trace constituents and their effects are recommended. The capital and operating costs for reductant systems based on gasification of coal and residual oil are estimated and compared with those for reduction systems based on natural gas. EPA CONTACT: Chatlynne, C. 8-629-2915

600/2-76-131 PE 1BC611 IN-HOUSE PROJECT

Overland Flow Treatment of Raw Wastewater with Enhanced Phosphorus Removal BY R. E. Thomas, B. Bledsoe, and K. Jackson, Robert S. Kerr Environmental Research Laboratory, EPA Ada, OK

A pilot-scale field study was conducted to evaluate the capability of overland flow to provide complete treatment of raw comminuted wastewater on a year-round basis in a mild climatic zone. Raw comminuted wastewater was applied through a specially designed distribution system which operated at low pressure and prevented the formation of aerosols. This specially designed applicator operated at a pressure of 1.0 kg/sq cm (15 psi) and was used to apply wastewater to three experimental plots at 7.4, 8.6, and 9.8 cm/week rates of loading. Wastewater and plot runoff samples were collected periodically to compare treatment efficiencies for the three loading rates and to determine seasonal influences on treatment efficiency. Fifteen parameters including suspended solids, biochemical oxygen demand, nitrogen, and phosphorus were used to evaluate treatment efficiencies. The results of this 18-month field study showed overland flow to be an effective process for achieving advanced waste treatment of raw comminuted wastewater via a simple system with no sludge production. EPA CONTACT: Thomas, R. E.

600/2-76-132 PE 1AB012 ROAP/TASK 21 ADL 035 GRANT NO. 801581-02-

Electrostatic Capture of Fine Particles in Fiber Beds BY D. L. Reid, and L. M. Browne, Battelle Pacific Northwest Laboratories Richland, WA

The report gives results of a study of the collection of charged submicron sized particles by fiber beds. Removal efficiency was determined as a function of particle resistivity, superficial gas velocity, and total concentration of the aerosol. Using a 12-in. thick polypropylene fiber bed, greater than 90% removal efficiency was reported for superficial bed velocities up to 300 ft/min. For a 6-in. bed, 90% removal was possible up to 200 ft/min. In both cases, the pressure drops for these systems were low (less than 1 in. H_2O). A third bed was tested, comprised of a 6-in. Teflon fiber bed followed immediately by a 6-in. polypropylene bed. This composite 12-in. bed did not perform as well as the homogeneous 12-in. bed. In all tests, the most important parameter was bed face velocity. In general, the collection efficiency of the fiber bed decreased linearly with increasing velocity. EPA CONTACT: Drehmel, D. C. 8-629-2925

600/2-76-133 PE 1AB012 ROAP/TASK 21 ADL 029 CONTRACT NO. 68-02-1324

Evaluation of Magnetics for Fine Particle Control BY K. P. Ananth, and L. J. Shannon, Midwest Research Institute Kansas City, MO

The report gives results of an evaluation of the effectiveness of magnetic agglomeration/separation techniques in enhancing fine particulate capture. Whereas residence times and magnetic fields required to achieve agglomeration via magnetic forces appear to be unrealistic, magnetic separation—especially high gradient magnetic separation—appears to be attractive in principle. EPA CONTACT: Drehmel, D. C. 8-629-2925

NEW REPORT ABSTRACTS SECTION

600/2–76–134 PE 1BC611 GRANT NO. 11010 GAK

Wastewater Reclamation Project, St. Croix U.S. Virgin Islands BY O. K. Buros, Black, Crow and Eidsness, Inc. Gainesville, FL

St. Croix is a subtropical semiarid island in the Territory of the U.S. Virgin Islands. The expanding population and rising standard of living have resulted in a level of potable water consumption above the available supply of surface and groundwater. Seawater desalinization plants are currently being used to produce the needed water. The cost of this desalinized water ranges up to $7/thousand gal ($1.84/cu m). Since 1971 work has been proceeding on a project to use tertiary-treated wastewater effluent for artificial recharge of the groundwater on St. Croix. A 0.5 mgd (1,890 cu m/day) advanced wastewater treatment plant and recharge facilities were designed and constructed. Background data on water quality and quantity in the surrounding area were collected for 2–1/2 years before recharging began. Recharge operations were carried out for 8 months during 1974, using both spray irrigation and spreading basins. The best method of recharging proved to be the use of spreading basins in an alluvial valley. The cost for the wastewater treatment, recharge operations, and recovery of groundwater was estimated to be about $2.15/thousand gal ($0.57 cu m) at 0.5 mgd (1,890 cu m/day) with a reduction in estimated costs to $1.64/thousand gal ($0.43/cu m) if the operation is expanded to 1 mgd (3,785 cu m/day). EPA CONTACT: Mason, R.

600/2–76–135a PE 1AB013 ROAP/TASK 21 ACX 085 CONTRACT NO. 68–02–0003

Development of the Westvaco Activated Carbon Process for SO_x Recovery as Elemental Sulfur: Volume I BY G. N. Brown, C. M. Reed, A. J. Repik, R. L. Stallings, and S. L. Torrence, Westvaco, Charleston Research Center North Charleston, SC

The report gives results of a demonstration (in a 20,000-cfh integral pilot plant) of an all-dry, fluidized-bed process, using activated carbon for recovering SO_2 as elemental sulfur. Granular carbon was recycled continuously more than 20 times between contact with flue gas from an oil-fired boiler and carbon regeneration to recover sulfur. During the 315-hour run, carbon performance remained high with essentially no chemical and low mechanical losses. Over 90% of the 2000 ppm SO_x was removed from the flue gas as sulfuric acid by catalytic oxidation and subsequent hydrolysis within the carbon granule. In the two-step regeneration: (1) the acid was converted to elemental sulfur at 300F with internally produced H_2S, and (2) an external source of hydrogen at 1000F was used to thermally strip the by-product sulfur from the carbon and produce the required H_2S by reaction with the remaining sulfur on carbon. Sufficient process and design information was developed from data obtained in the integral run and prior stepwise pilot equipment operation to permit scale-up to a 15MW prototype for a coal-fired boiler. In the preliminary design, reducing gas is produced in a coal gasifier. An economic assessment of a 1000-MW conceptual design for the process indicates capital and operationg costs competitive with those of other regenerable systems. EPA CONTACT: Kemnitz, D. L. 8–629–2557

600/2–76–136a PE EHE624 IN-HOUSE PROJECT

Proceedings: Symposium on Flue Gas Desulfurization—New Orleans, March 1976: Volume I BY R. D. Stern, W. H. Ponder, and R. C. Christman, Industrial Environmental Research Laboratory, EPA Research Triangle Park, NC

The proceedings document the presentations made during the symposium, which dealt with the status of flue gas desulfurization technology in the United States and abroad. Subject considered included: regenerable, non-regenerable and advanced processes; process cost; and by-product disposal, utilization, and marketing. The purpose of the symposium was to provide developers, vendors, users, and those concerned with regulatory guidelines with a current review of progress made in applying processes for the reduction of sulfur dioxide emissions at the full- and semi-commercial scale. EPA CONTACT: Stern, R. D. 8–629–2915

600/2–76–137 PE 1AB013 ROAP/TASK 21 ADD BG CONTRACT NO. 68–02–1859

Evaluation of Selected Methods for Chemical and Biological Testing of Industrial Particulate Emissions BY H. Mahar, Mitre Corporation McLean, VA

The report gives results of chemical analyses and cellular biological assays performed on size-classified particulate material collected using a new series cyclone sampling train at nine industrial sites. The exercise was formulated to determine performance of the train and whether the chemical analyses or the bioassays, alone or in combination, were sufficient to characterize the hazards associated with particulate emissions. This program lends support to the view that size-classified particulate matter is needed for the various chemical or biological tests. Elemental analysis and partial organic characterization of the particulate samples have been performed. A cellular bioassay, utilizing rabbit alveolar macrophages, has been used to provide a rank ordering of particulate samples in terms of their observed cytotoxic activity. A bacterial screening technique, utilizing several histidine deficient *Salmonella typhimurium* strains, has been used to study the mutagenic potential of the particulate samples. Attempts to correlate observed biological activity with chemical analyses are provided. EPA CONTACT: Johnson, L. D. 8–629–2557

600/2–76–138 PE EHE623 CONTRACT NO. 68–02–1834

Coal Preparation Environmental Engineering Manual BY D. C. Nunenkamp, J. J. Davis Associates McLean, VA

The manual provides an introduction to physical coal cleaning to individuals outside of the coal preparation industry. Specifically, the manual covers the general nature and characteristics of U.S. coals, provides an overview of the coal preparation plant, discusses the major equipment and processes currently in use in coal preparation, identifies the primary waste streams found during the coal cleaning operation, discusses the techniques of control currently applied to those waste streams, and describes the contaminant removal potential of coal. EPA CONTACT: Stutsman, M. J. 8–629–2851

NEW REPORT ABSTRACTS SECTION

600/2-76-139 PE 1BB036 ROAP/TASK 21 AZT 006 GRANT NO. 800852

Treatment of Denim Textile Mill Wastewaters: Neutralization and Color Removal BY C. R. Froneberger, and M. J. Pollack, R. S. Noonan, Inc. of South Carolina Greenville, SC

The report describes a bench scale investigation using fly ash adsorption and chemical destabilization techniques to remove color from indigo and sulfur dyeing wastewaters from a denim textile mill. The investigation included a feasibility study and subsequent full scale demonstration flue gas wet scrubbing techniques for neutralizing caustic wastewaters. The fly ash adsorption studies demonstrated that fly ash from a coalfired boiler can adsorb and subsequently remove color, BOD5, and COD from biologically treated domestic and dyeing process wastewaters. The limited adsorption capacity of the fly ash and problems related to fly ash/wastewater contact made full scale application impractical. The chemical destabilization studies included investigation of 11 destabilizing agent combinations, chemical recycle, and various parameters associated with sludge handling and disposal. The studies concluded that calcium hydroxide or aluminum sulfate could successfully remove color and produce a supernatant of suitable quality to recycle. The practicability of using coal-fired boiler flue gases to neutralize caustic wastewaters was demonstrated on full scale. Caustic wastewaters were used with a conventional wet scrubber to successfully neutralize the wastewaters by SO_2 and CO_2 absorption from the flue gas while simultaneously reducing the particulate emissions. EPA CONTACT: Sargent, T. N. 8-684-4330

600/2-76-140 PE 1AB012 ROAP/TASK 21 ADL 027 CONTRACT NO. 68-02-1875

Rapping Reentrainment in a Nearly Full-Scale Pilot Electrostatic Precipitator BY H. W. Spencer III, Southern Research Institute Birmingham, AL

The report gives results of an experimental investigation of rapping reentrainment in a nearly full-scale pilot electrostatic precipitator. The study included a fundamental examination of the mechanics of removal of dry dust by rapping and the quantification of rapping reentrainment in terms of the percentage and the particle size distribution of the reentrained dust. During the study, the contribution of rapping reentrainment to total emissions ranged from 53 to 18%, depending on rapping conditions. These percentages corresponded to 5.4 and 2 7% of the dust collected on the plates being emitted from the precipitator during plate rapping. A major portion of the reentrained material was observed to result from hopper boil up. A decrease in rapping emissions was obtained by increasing the time interval between raps. The mass median diameters of the size distributions of the particles emitted during the raps were observed to increase with increased time between raps. EPA CONTACT: Sparks, L. E. 8-629-2925

600/2-76-141 PE 1AB013 ROAP/TASK 21 ADL 027 CONTRACT NO. 68-02-2114

Particulate Collection Efficiency Measurements on an Electrostatic Precipitator Installed on a Paper Mill Recovery Boiler BY J. P. Gooch, and G. H. Marchant Jr., Southern Research Institute Birmingham, AL

The report gives results of fractional and overall collection efficiency measurements of an electrostatic precipitator collecting salt cake from a Kraft recovery boiler. Mass median diameter of the particulate entering the collector was approximately 1.0 micrometers; minimum average collection efficiency in the 0.1-2.0 micrometer diameter range was 99.92%. Size distributions at the precipitator inlet and outlet were measured with cascade impactors and an electrical aerosol analyzer. Overall mass efficiency measurements, based on a mass train with an in-stack filter, ranged from 99.92 to 99.96%. Fair agreement was obtained between the total mass loadings obtained with the mass trains and the impactors. Average precipitator operating conditions during the test period were: secondary voltage, 47.1kV: current density, 32.6 x 10 to the minus 9th power amps/sq cm; specific collecting area, 114 sq m/(cu m/sec); temperature, 198C; and gas velocity, 0.76 m/sec. The precipitation rate parameter of the unit averaged 6.56 cm/sec, which is within the range of values to be expected for precipitators in this application. EPA CONTACT: Sparks, L. E. 8-629-2925

600/2-76-142 PE 1AB013 ROAP/TASK 21 ACX 095 CONTRACT NO. 68-02-1313

Wet Electrostatic Precipitator System Study BY J. P. Gooch, and A. H. Dean, Southern Research Institute Birmingham, AL

The report describes a study of wet electrostatic precipitators (WESP's) through laboratory experiments, a field test of a full-scale unit, interviews with manufacturers and users, and a literature survey. Experiments were aimed at determining collection efficiency as a function of particle size at varying current densities and specific collection areas. The results agreed reasonably with those predicted by simulating the experimental conditions with a mathematical model. The feasibility of collecting SO_2 and particulate in a WESP was examined. As expected, calculation of ion transport rates indicates that only an insignificant amount of SO_2 can be removed by selective ionization of SO_2 molecules. Mass transfer calculations indicated that irrigated electrode surfaces would not provide sufficient interfacial area for desired SO_2 removal levels. Based on conventional geometry and stainless steel construction, a WESP/scrubber device would be more costly than a scrubber-only system because of high WESP capital cost. The effectiveness of a WESP as a mist eliminator following a scrubber was calculated to be a function of the particle size distribution and the concentration of the mist to be collected. The field test and literature survey showed that WESP's have been used effectively to control fine particle emissions in the aluminum, iron and steel, chemical and petrochemical fields. EPA CONTACT: Sparks, L. E. 8-629-2925

NEW REPORT ABSTRACTS SECTION

600/2-76-143a PE 1AB013 ROAP/TASK 21 AFJ 033 CONTRACT NO. 68-02-1336

Meyers Process Development for Chemical Desulfurization of Coal. Volume I BY E. P. Koutsoukos, M. L. Kraft, R. A. Orsini, R. A. Meyers, M. J. Santy, and L. J. Van Nice, TRW Systems Group Redondo Beach, CA

The report gives results of bench-scale development of the Meyers Process (for chemical removal of sulfur from coal) for desulfurization of both fine and coarse coal. More than 90% of the pyrite was removed from runof-mine (ROM) fine coal and clean coarse coal, and more than 80% of the pyrite from ROM coarse coal. Process improvements were demonstrated involving: increased process slurry solids concentration for higher process throughput (33% w/w); lowered filtration requirements through use of larger top-size fine coal; and generated elemental sulfur removal by vaporization from the coal matrix. Pyrite leaching and reagent regeneration rate expressions were validated. Engineering studies showed that: the process may be engineered in a number of basic designs including simultaneous leach and generation, separate leach and regeneration, use of oxygen or air for regeneration, fine or coarse coal processing, and combined with coal cleaning; these process designs lead to a stand-alone full capital cost estimate range of $50–100/KW of power plant nameplate capacity; estimated coal desulfurization costs, annualized on a utility financed basis, range between $0.18 and 0.38/MM Btu; and assuming ROM coal costs of $20/ ton, the costs of the desulfurized fuel are estimated to range between $0.24 and 0.43/MM Btu. EPA CONTACT: Tamny, L. D. 8-629-2851

600/2-76-143b PE 1AB013 ROAP/TASK 21 AFJ 033 CONTRACT NO. 68-02-1336

Meyers Process Development for Chemical Desulfurication of Coal. Volume II – Appendices BY E. P. Koutsoukos, M. L. Kraft, R. A. Orsini, R. A. Meyers, M. J. Santy, and L. J. Van Nice, TRW Systems Group Redondo Beach, CA

The report gives results of bench-scale development of the Meyers Process (for chemical removal of sulfur from coal) for desulfurization of both fine and coarse coal. More than 90% of the pyrite was removed from runof-mine (ROM) fine coal and clean coarse coal, and more than 80% of the pyrite from ROM coarse coal. Process improvements were demonstrated involving: increased process slurry solids concentration for higher process throughput (33% w/w); lowered filtration requirements through use of larger top-size fine coal; and generated elemental sulfur removal by vaporization from the coal matrix. Pyrite leaching and reagent regeneration rate expressions were validated. Engineering studies showed that: the process may be engineered in a number of basic designs including simultaneous leach and generation, separate leach and regeneration, use of oxygen or air for regeneration, fine or coarse coal processing, and combined with coal cleaning; these process designs lead to a stand-alone full capital cost estimate range of $50–100/KW of power plant nameplate capacity; estimated coal desulfurization costs, annualized on a utility financed basis, range between $0.18 and 0.38/MM Btu; and assuming ROM coal costs of $20/ ton, the costs of the desulfurized fuel are estimated to range between $0.24 and 0.43/MM Btu. EPA CONTACT: Tamny, L. D. 8-629-2851

600/2-76-144 PE 1AB012 ROAP/TASK 21 ADL 027 CONTRACT NO. 68-02-1303

Elctrostatic Precipitators: Relationship Between Resistivity, Particle Size, and Sparkover BY H. W. Spencer III, Southern Research Institute Birmingham, AL

The report gives results of a study of the relationships of the electrical resistivity of fly ash, its particle size, the occurrence of back corona and sparkover, and the electrical characteristics of electrostatic precipitators (ESP's). The study included laboratory measurement of the dielectric strengths and resistivity of five particle-size fractions of a fly ash sample and measurement of the current densities and voltages at which back corona and sparkover occurred for a 3-mm dust layer covering the plate of a wire-plate negative-corona discharge device. Results showed that the peak current density for the formation of back corona depended on the resistivity of the dust covering the positive electrode. Operating current densities for full-scale ESP's are discussed in relation to fly ash resistivity. EPA CONTACT: Spark, L. E. 8-629-2925

600/2-76-149 PE EHB529 CONTRACT NO. 68-02-1325

Symposium Proceedings: Environmental Aspects of Fuel Conversion Technology, II (December 1975, Hollywood, Florida) BY F. A. Ayer, Research Triangle Institute Research Triangle Park, NC

The report covers EPA's second symposium on the environmental aspects of fuel conversion technology. The symposium was conducted at the Diplomat Hotel, Hollywood, Florida, December 15-18, 1975. Its main objective was to review and discuss environmentally related information in the field of fuel conversion technology. Specific topics were environmental problem definition, process technology, control technology, and process measurements. EPA CONTACT: Rhodes, W. J. 8-629-2851

NEW REPORT ABSTRACTS SECTION

600/2-76-150 **PE 1AB013** **CONTRACT NO. 68-02-1321**

Simplified Procedures for Estimating Flue Gas Desulfurization System Costs BY T. C. Ponder Jr., L. V. Yerino, V. Katari, Y. Shah, and T. W. Devitt, PEDCo-Environmental Specialists, Inc. Cincinnati, OH

The report gives procedures for estimating the capital costs and annualized operating costs for five flue gas desulfurization (FGD) systems: lime, wet limestone, magnesium oxide, Wellman-Lord, and double alkali. Two methods are given for calculating the costs for the five systems: a detailed, flexible nomograph procedure, and a rapid equation procedure. All items that affect the capital and annualized operating costs of FGD systems in these estimating procedures are identified. Costs estimated by the procedures are compared with actual costs incurred by FGD system operators. Any differences between the estimated and actual costs are accounted for; the estimating procedures are modified when necessary. EPA CONTACT Chatlynne, C. J. 8-629-2915

600/2-76-151 **PE 1HB617** **CONTRACT NO. 68-01-2293**

Loading Functions for Assessment of Water Pollution from Nonpoint Sources BY A. D. McElroy, S. Y. Chiu, J. W. Nebgen, and A. Aleti, Midwest Research Institute Kansas City, MO

Methods for evaluating the quantity of water pollutants generated from nonpoint sources including agriculture, silviculture, construction, mining, runoff from urban areas and rural roads, and terrestrial disposal are developed and compiled for use in water quality planning. The loading functions, plus in some instances emission values, permit calculation of nonpoint source pollutants from available data and information. Natural background was considered to be a source and loading functions were presented to estimate natural or background loads of pollutants. Loading functions/values are presented for average conditions, i.e., annual average loads expressed as metric tons/hectare/year (tons/acre/year). Procedures for estimating seasonal or 30-day maximum loads are also presented. In addition, a wide variety of required data inputs to loading functions, and delineation of sources of additional information are included in the report. The report also presents an evaluation of limitations and constraints of various methodologies which will enable the user to employ the functions realistically. EPA CONTACT: Heitzenrater, P. 8-426-2407

600/2-76-152a **PE 1AB014** **ROAP/TASK 21 BCC** **IN-HOUSE PROJECT**

Proceedings of the Stationary Source Combustion Symposium; Volume I – Fundamental Research Industrial Environmental Research Laboratory, EPA Research Triangle Park, NC

The proceedings document the 37 presentations made during the Stationary Source Combustion Symposium held in Atlanta, Ga., September 24-26, 1975. Sponsored by the Combustion Research Branch of EPA's Industrial Environmental Research Laboratory—RTP, the symposium dealt with subjects related both to developing improved combustion technology for the reduction of air pollutant emissions from stationary sources, and to improving equipment efficiency. The symposium was divided into four parts and the proceedings were issued in three volumes: Volume I—Fundamental Research, Volume II—Fuels and Process Research and Development, and Volume III—Field Testing and Surveys. The symposium was intended to provide contractor, industrial, and Government representatives with the latest information on EPA in-house and contract combustion research projects related to pollution control, with emphasis on reducing nitrogen oxides. EPA CONTACT: Bowen, J. S. 8-629-2470

600/2-76-152b **PE 1AB014** **ROAP/TASK 21 BCC** **IN-HOUSE PROJECT**

Proceedings of the Stationary Source Combustion Symposium; Volume II – Fuels and Process Research and Development Industrial Environmental Research Laboratory, EPA Research Triangle Park, NC

The proceedings document the 37 presentations made during the Stationary Source Combustion Symposium held in Atlanta, Ga., September 24-26, 1975. Sponsored by the Combustion Research Branch of EPA's Industrial Environmental Research Laboratory—RTP, the symposium dealt with subjects related both to developing improved combustion technology for the reduction of air pollutant emissions from stationary sources, and to improving equipment efficiency. The symposium was divided into four parts and the proceedings were issued in three volumes: Volume I—Fundamental Research, Volume II-Fuels and Process Research and Development, and Volume III—Field Testing and Surveys. The symposium was intended to provide contractor, industrial, and Government representatives with the latest information on EPA in-house and contract combustion research projects related to pollution control, with emphasis on reducing nitrogen oxides. EPA CONTACT: Bowen, J. S. 8-629-2470

600/2-76-152c **PE 1AB014** **ROAP/TASK 21 BCC** **IN-HOUSE PROJECT**

Proceedings of the Stationary Source Combustion Symposium; Volume III – Field Testing and Surveys Industrial Environmental Research Laboratory, EPA Research Triangle Park, NC

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NEW REPORT ABSTRACTS SECTION

600/2-76-153 PE EHB529 CONTRACT NO. 68-02-1099

Fuel Gas Environmental Impact BY F. L. Robson, and W. A. Blecher, United Technologies Research Center East Hartford, CT BY C. B. Colton, Hittman Associates, Inc. Columbia, MD

As they relate to combined cycle power generation, the report gives results of an evaluation of the technical and economic considerations of atmospheric-pressure, oxygen-blown coal gasifiers (Koppers-Totzek) and pressurized, air-blown, partial-oxidation residual-oil gasifiers (Shell/ Texaco). Also presented are refinements of systems reported in an earlier phase report, 600/2-75-078. The objective of the report is to help define the environmental impact of combinations of: (1) fossil fuel gasification systems, (2) low- and high-temperature fuel gas cleanup processes, and (3) advanced cycle power systems. EPA CONTACT: Rhodes, W. J. 8-629-2851

600/2-76-154a PE 1AB012 ROAP/TASK 21 ADL 004 CONTRACT NO. 68-02-1496

A.P.S. Electrostatic Scrubber Evaluation BY S. Calvert, J. Rowan, S. Yung, C. Lake, and H. Barbarika, Air Pollution Technology, Inc. San Diego, CA

The report gives results of the computation of fine particle collection efficiency as a function of particle size, based on data from an Air Pollution Systems, Inc. (A.P.S.) electrostatic scrubber. The scrubber was operated at 21.0 and 22.7 actual cu m/min at 16C with a pressure drop of approximately 40 cm W.C. Titanium dioxide was generated as the test aerosol having an approximate mass mean diameter (aerodynamic) of 1.0 micrometer with a geometric standard of 2.2. The scrubber was tested with the particle ionizer on and off: collection efficiency generally improved with the ionizer on. Additional testing was performed to determine if static charges were affecting the sampling measurements. Particle size and collection efficiency changed when charge neutralizing devices were used. The inlet test aerosol charge apparently affects the measured penetration. EPA CONTACT: Harmon, D. L. 8-629-2925

600/2-76-154b PF 1AB012 ROAP/TASK 21 ADL 004 CONTRACT NO. 68-02-1496

A.P.S. Electro-Tube Evaluation BY S. Calvert, C. Christensen, and C. Lake, Air Pollution Technology, Inc. San Diego, CA

The report gives results of an evaluation of an Air Pollution Systems (APS) Inc. Electro-Tube, a wet electrostatic precipitator. Fine particle collection efficiency as a function of particle size was computed from data taken on the Electro-Tube. It was operated at gas flow rates of 16.9, 18.9 and 22.9 cu m/min at ambient conditions. Titanium dioxide was generated as the EPA CONTACT: Harmon, D. L. 8-629-2925

600/2-76-155 PE EHE624 CONTRACT NO. 68-02-1325

Estimation of Permissible Concentrations of Pollutants for Continuous Exposure BY R. Handy, and A. Schindler, Research Triangle Institute Research Triangle Park, NC

The report gives results of a study aimed at: estimating the maximum permissible continuous exposure to which individuals may be subjected; and computing permissible exposure to a multipollutant system so that the degree of control necessary for a waste stream can be computed. (These capabilities are desirable in the absence of a Federal Standard for a pollutant.) The report deals with three aspects of the problem: permissible continuous exposure for air pollutants; permissible continuous exposure for water pollutants; and permissible continuous exposure to carcinogens in ambient air. For carcinogens, the problem is approached on a probable risk/concentration basis. Calculated permissible levels for 24 hours exposure were compared with 23 substances for which standards have been set or proposed. In general, agreement was within an order of magnitude. An appendix to the report contains a nomograph for easy estimation of maximum ground level concentrations of pollutants issuing from point sources. EPA CONTACT: Samfield, M. 8-629-2547

600/2-76-157 PE 1AA010 CONTRACT NO. 68-02-1295

Sampling Interface for the Quantitative Transport of Aerosols— Field Prototype BY M. B. Ranade, IIT Research Institute Chicago, IL

A sampling interface for the quantitative transport of aerosols was designed, fabricated and evaluated. The interface may be used for transporting particles (up to 50 um on diameter) from industrial stacks to a collection device or a monitoring instrument. The interface consists of a porous wall probe with clean air transpiring inwards to prevent deposition of particles. Laboratory and field testing of the interface has shown it to be efficient in transporting particles encountered in industrial stacks. EPA CONTACT: Knapp, K. T. 8-629-2216

NEW REPORT ABSTRACTS SECTION

600/2-76-159 PE EHB524 CONTRACT NO. 68-02-1398

IERL-RTP Data Quality Manual BY F. Smith, and J. Buchanan, Research Triangle Institute Research Triangle Park, NC

The manual gives guidelines for the establishment and maintenance of an integrated data quality program for EPA's Industrial Environmental Research Laboratory—Research Triangle Park (IERL-RTP). Administrative systems dedicated to the data quality program are delineated. These systems include quality policies and objectives, organizational structure and key quality personnel, and a schedule for implementation. Components of both quality control programs and quality assurance programs are given. IERL-RTP projects are divided into six catagories. Projects within a given category have common characteristics (e.g., size, duration, objectives, and data quality requirements), making them amenable to the same general set of quality control and quality assurance practices and procedures. Quality control and quality assurance procedures applicable to each of the six categories are given for each phase of the project's life cycle. These phases include: Request for Proposal preparation, proposal evaluation, work plan evaluation, project implementation and maintenance, and reports. EPA CONTACT: Johnson, L. D. 8-629-2557

600/2-76-160a PE 1AB013 ROAP/TASK 21 AAZ 15 CONTRACT NO. 68-02-1412

IERL-RTP Procedures Manual: Level 1 Environmental Assessment BY J. W. Hamersma, S. L. Reynolds, and R. F. Maddalone, TRW Systems Group Redondo Beach, CA

The manual gives Level 1 procedures (recommended by Industrial Environmental Research Laboratory—Research Triangle Park) for personnel experienced in collecting and analyzing samples from industrial and energy producing processes. The phased environmental strategy provides a framework for determining industry, process, and stream priorities on the basis of a staged sampling and analysis technique. (Level 1 is a screening phase that characterized the pollutant potential of process influent and effluent streams.) The manual is divided into two major sections: sampling procedures and analytical procedures. The sampling section is further divided into five chapters: fugitive emissions, gases, aerosols, liquids (including slurries), and solids. The analytical section is divided into three chapters: inorganics, organics and bioassays. EPA CONTACT: Statnick, R. M. 8-629-2557

600/2-76-161a PE 1AB013 ROAP/TASK 21 ADC 030 CONTRACT NO. 68-02-1332

Impact of SO_x Emissions Control on Petroleum Refining Industry; Volume I. Study Results and Planning Assumptions BY J. R. Kittrell, and N. Godley, Arthur D. Little, Inc. Cambridge, MA

The report gives results of an assessment of the impact on the U.S. petroleum refining industry of a possible EPA regulation limiting the level of gaseous refinery sulfur oxide (SO_x) emissions. Computer models representing specific refineries in six geographical regions of the U.S. were developed as the basis for determining the impact on the existing refining industry. New refinery construction during the period under analysis (1975-1985) was also considered by development of computer models representing new grassroots refineries. Control of refinery SO_x emissions from both existing and new refineries was defined for the purposes of this study by maximum sulfur levels on refinery fuel and on fluid catalytic cracking unit feedstock and by increased sulfur recovery in the Claus plant. The computer models thus constrained were utilized to assess investment and energy requirements to meet the possible regulation and the incremental cost to manufacture all refinery products as a result of the regulation. Parametric studies evaluated the impact of variations in the types of imported crude oils available for future domestic refining and the projected sulfur level of residual fuel oil manufactured in the U.S. EPA CONTACT: Samfield, M. 8-629-2547

600/2-76-161b PE 1AB013 ROAP/TASK 21 ADC 030 CONTRACT NO. 68-02-1332

Impact of SO_x Emissions Control on Petroleum Refining Industry; Volume II. Detailed Study Results BY J. R. Kittrell, and N. Godley, Arthur D. Little, Inc. Cambridge, MA

The report gives results of an assessment of the impact on the U.S. petroleum refining industry of a possible EPA regulation limiting the level of gaseous refinery sulfur oxide (SO_x) emissions. Computer models representing specific refineries in six geographical regions of the U.S. were developed as the basis for determining the impact on the existing refining industry. New refinery construction during the period under analysis (1975-1985) was also considered by development of computer models representing new grassroots refineries. Control of refinery SOx emissions from both existing and new refineries was defined for the purposes of this study by maximum sulfur levels on refinery fuel and on fluid catalytic cracking unit feedstock and by increased sulfur recovery in the Claus plant. The computer models thus constrained were utilized to assess investment and energy requirements to meet the possible regulation and the incremental cost to manufacture all refinery products as a result of the regulation. Parametric studies evaluated the impact of variations in the types of imported crude oils available for future domestic refining and the projected sulfur level of residual fuel oil manufactured in the U.S. EPA CONTACT: Samfield, M. 8-629-2547

NEW REPORT ABSTRACTS SECTION

600/2–76–162 PE EHE624 IAG NO. IAG-D5-E-721

Technology of Reducing Intake Structure Effects: A State-of-theArt Report BY S. S. Ray, and R. L. Snipes, Tennessee Valley Authority Chattanooga, TN

The report presents an up-to-date evaluation of mechanisms and intake designs for reducing the number of fish entrained and impinged at water intake facilities. These mechanisms consist of: intake configurations, behavioral barriers for guiding fish past intake entrances, physical screening devices to physically remove or divert fish from cooling water intakes, and fish removal systems to evacuate fish evacuate fish already within the intake area. The report summarizes evaluations of available intake technologies. More important, it presents results of recent tests and studies. Where promising mechanisms are identified, it recommends with regard to tests needed to demonstrate the viability of a mechanism for protecting fish in a particular situation. The report also considers reducing fish losses both at large-volume, once-through cooling water intakes, and at lower-volume intakes at plants requiring only makeup water to replace losses due to cooling tower blowdown and evaporation. In evaluating devices for reducing impingement and entrainment, devices and designs that can protect very small fish and larval eggs were considered. EPA CONTACT: Chasse, J. P.

600/2–76–163 PE 1CC614 ROAP/TASK 21 AQE 009 GRANT NO. 802946

Virion Aggregation and Disinfection of Water Viruses by Bromine BY D. G. Sharp, North Carolina, University of Chapel Hill, NC

A dynamic system, in which disinfectant exposure time intervals as low as 0.5 seconds was developed. Polio and reo virus preparations, containing essentially all single particles, as indicated by electron microscopy, were tested in this system. The results indicated that reovirus single particle suspensions were 30 times as sensitive to bromine as poliovirus single particle suspensions, both showing essentially first order reaction kinetics with disinfection rates of 3 $\log_{10}$ per second and 6 $\log_{10}$ units per minute, respectively. Inactivation rates with slightly aggregated reovirus deviated from first order kinetics, the reaction rate declining continuously in a manner consistent with the degree of aggregation shown by electron micrographs. In other experiments, aggregated reovirus showed some survival after 4 minutes exposure to the same bromine concentration that reduced single particle preparations below that level in 1.33 seconds. Thus aggregated reovirus was nearly 200 times as resistant as dispersed reovirus and substantially more resistant than dispersed poliovirus. Temperature effects on disinfection rates using dispersed poliovirus were also investigated. The report demonstrates the effects of virus aggregation on disinfection kinetics and provides the basis for comparing the resistance of different viruses to different disinfectants under various conditions. EPA CONTACT: Hoff, J. 8–684–7231

600/2–76–164 PE 1AB012 ROAP/TASK 21 ADL 004 CONTRACT NO. 68–02–1480

Evaluation of Rexnord Gravel Bed Filter BY J. D. McCain, Southern Research Institute Birmingham, AL

The report gives results of fractional and overall mass efficiency tests of a full-scale Rexnord gravel bed filter system used to control particulate emissions from a Portland cement plant clinker cooler. Total flue gas particulate mass concentrations and emission rates were determined at the inlet and outlet of the gravel bed system by conventional (Method 5) techniques. Inlet and outlet emission rates as a function of size were determined on a mass basis using cascade impactors for sizes from about 0.5 to 5 micrometers, and on a number basis for sizes smaller than about 1 micrometer using optical and diffusional methods. The report briefly describes the Portland cement process, the Rexnord gravel bed filter system, the measurement methods, inlet and outlet particle size distribution data, and fractional efficiencies. EPA CONTACT: Harmon, D. L. 8–629–2925

600/2–76–165 PE 1AB013 ROAP/TASK 21 ADD 050 CONTRACT NO. 68–02–0293

Demetallization of Heavy Residual Oils—Phase III BY M. C. Chervenak, P. Maruhnic, and G. Nongbri, Hydrocarbon Research, Inc. Trenton, NJ

The report gives results of Phase III work to optimize operating conditions in the demetallization step for overall desulfurization of heavy petroleum residual oils. Bachaquero and Lloydminster vacuum residua were demetallized to different levels of vanadium removal, the products desulfurized over commercial hydrodesulfurization catalyst at various operating conditions, and minimim operating costs were calculated to produce low sulfur fuel oil. The report describes test units, operating conditions, and procedures, and includes run summaries and tables of feedstock, product, and catalyst inspections. Graphs and tables depicting operating costs for producing 0.3, 0.5, and 1.0 wt % sulfur fuel oil are given, along with various correlations between demetallization levels, catalyst deactivation, demetallization rate constant, and contaminant metals deposited on catalyst. EPA CONTACT: Rhodes, W. J. 8–629–2851

600/2–76–166 PE EHB536 CONTRACT NO. 68–02–1332

Residuum and Residual Fuel Oil Supply and Demand in the United States, 1973–1985 BY J. Monk Jr., M. Menino, E. Quackenbush, N. Godley, L. Clark, M. Cloyd, I. Jashnani, and R. Stickles, Arthur D. Little, Inc. Cambridge, MA

The report gives results of a study of the supply and demand of petroleum residuum in the United States, now and in 1985, with particular emphasis on residual fuel oil. The report details the historical residuum balance, then examines the major factors which affect the supply and demand. Factors include governmental influences, foreign factors, energy production trends, demand trends, technological innovations in sulfur removal processes, and residual fuel oil handling problems. Based on these factors, a potential 1985 residuum supply scenario is formulated and discussed. The sensitivity of the future scenario to the influence of the various factors is also examined. EPA CONTACT: Rakes, S. L. 8–629–2825

NEW REPORT ABSTRACTS SECTION

600/2-76-167 **PE 1AB015** **CONTRACT NO. 68-02-1323**

Metals Mining and Milling Process Profiles with Environmental Aspects BY R. J. Nerkervis, and J. Hallowell, Battelle Columbus Laboratories Columbus, OH

The report describes the environmental aspects of metals mining and milling (concentration) operations in the U.S. The metals include Al, Sb, Be, Cu, Au, Fe, Pb, Zn, Hg, Mo, Ni, Pt, the rare earth metals, Ag, Ti, W, U, and V. The types of environmental impacts associated with operations from mining through production of concentrate are described in general terms; the nature of each metal category of the industry is described in terms of number and locations of plants, names of producing companies, production levels, and other characteristics of the industry. Flowsheets are presented which indicate raw materials inputs, unit operations, and intermediate and final products. Each unit process is described in terms of function, input materials, operating conditions, utilities and energy use, and waste streams. The descriptions of unit processes identify waste streams in terms of emissions to the air, water effluents, and solid wastes disposed to the land. The approximately 185 unit operations described include mining, dredging, crushing, flotation, leaching, sintering, and nodulizing. The most common waste streams are dusts from mining and crushing operations, liquid streams from mine drainage, flotation operations, tailings ponds, and leaching operations. EPA CONTACT: Tucker, W. G. 8-629 2745

600/2-76-168b **PE EHE624** **IN-HOUSE PROJECT**

EPA Fabric Filtration Studies: 2. Performance of Non-Woven Polyester Filter Bags BY G. H. Ramsey, R. P. Donovan, B. E. Daniel, and J. H. Turner, Industrial Environmental Research Laboratory, EPA Research Triangle Park, NC

The report gives results of an evaluation of fabric filter bags made of non-woven, spunbonded polyester in a laboratory simulation of a baghouse operating at room temperature. Using only redispersed power plant flyash, the collection efficiency, specific cake resistance, and pressure drops (effective and terminal drags) were measured for seven bags each of which was made from one of seven different spunbonded polyester fabrics. The two best-performing bags were further evaluated in humidity and endurance tests. Overall, the bag made from crimped polyester fiber of 6 oz/sq yd (0.20 kg/sq m) nominal weight provided the best performance/operating cost tradeoff. It significantly outperformed a woven polyester bag (included in the tests as a reference) but lasted less than half as long in the endurance tests. Classification of the outlet dust according to size during the humidity tests showed that: filtration efficiency is higher at 70 than at 30% relative humidity; although filtration efficiency is always lowest immediately after a cleaning cycle, high relative humidity (70%) reduces the time required to re-establish operation at high filtration efficiency; and the smallest particles measured (0.3 to 0.5 micrometer optical diameter) are less efficiently filtered than larger particles. EPA CONTACT: Turner, J. H. 8-629-2925

600/2-76-169 **PE 1AA010** **CONTRACT NO. 68-02-1755**

Development of a Proportional Sampler for Automobile Exhaust Emissions Testing BY H. J. Haskins, Aeronutronic Ford Corporation Newport Beach, CA

This report describes the development of a device that is capable of sampling gaseous emissions from automobiles. The device samples exhaust gases at a mass rate that is proportional to the total exhaust gas mass flow rate, which is measured using an ultrasonic vortex flowmeter. The flowmeter delivers signals, which are conditioned by process control electronics, to a sample valve. Non-standard temperature and pressure conditions at both the vortex flowmeter and the sample valve are compensated for the process control electronics. The report focuses primarily on development of the vortex flowmeter, the sample valve, and the process control electronics. These three components comprise the heart of the proportional sampling system. EPA CONTACT: Gabele, P. A. 8-629-2461

600/2-76-170 **PE 1AA010** **CONTRACT NO. 68-02-1244**

Particulate Sampling Strategies for Large Power Plants Including Nonuniform Flow **BY H. A. Hansen, R. J. Davini, J. K. Morgan, and A. A. Iversen, Fluidyne Engineering Corporation Minneapolis, MN**

This report describes the results of a study to determine the effects that various geometric ducting configurations have on the flow profiles and the distribution of particulate in ducting systems of large (> 100MW) power plants. The program included both laboratory model studies and field testing at large power plants. The measurement of total volumetric flow and particulate emissions at less than full operating capacity was also investigated. The results of flow angularity measurements in large stacks at typical sample port locations, including downstream of induced draft fans, are similarly discussed. Special attention was given to the aerodynamic effects of S-tube/sampling probe interference on velocity measurements with an S-tube in EPA Stack Emissions Measurement Reference Methods 2 and 5. A computerized technique was used to determine the effectiveness of various equal-area sampling strategies in providing accurate measurements of three emission parameters: average particulate concentration, total volumetric flow rate, and total emissions. Numerous typical and atypical velocity and particulate concentration profiles were studied. Sampling strategy recommendations are presented. EPA CONTACT: Ward, T. E. 8-629-2216

NEW REPORT ABSTRACTS SECTION

600/2-76-171 PE 1AA010 CONTRACT NO. 68-02-17[illegible]3

Evaluation of Monitoring Systems for Power Plant and Sulfur Recovery Plant Emissions BY M. W. Greene, R. L. Chapman, S. C. Creason, R. N. Harvey, G. A. Heyman, and W. R. Pearson, Beckman Instruments, Inc. Anaheim, CA

This project was conducted to evaluate a number of commercially available extractive-type sampling and monitoring systems for monitoring sulfur dioxide and hydrogen sulfide source emissions. Evaluation testing was performed at a Fossil-Fuel-Fired Power Plant and at a Claus Sulfur Recovery Plant to obtain representative ranges of stack gas temperature, water and particulate loading, and concentrations of SO_2. Tests were performed to determine Error, Relative Accuracy, Two- and Twenty-Four-Hour Zero and Calibration Drifts, Response Time, and Operational Period in accordance with published EPA guidelines. The performance in each test was judged against the published EPA performance criteria (EPA-650/2-74-013). The detailed field test results, the complete Work Plan, sampling interface drawings, the results of evaluations of Compliance Test Methods 6 and 11, miscellaneous observations and results, and a discussion of the calculation and reporting instructions of the EPA Guidelines are given in the appendices. A detailed description of the systems evaluated, summaries of the field test results, and relevant comments concerning the results are given in the body of the report. Because the sites chosen for evaluation testing provided wide ranges of sample temperature, solids and water loading, and SO_2 concentration, the results are considered to be relevant to most stack-gas monitoring problems. Results at the Claus Plant site were somewhat compromised by equipment failures. EPA CONTACT: Homolya, J. B.

600/2-76-172 PE 1AB012 ROAP/TASK 21 BJV 023 CONTRACT NO. 68-02-1324

Fine Particle Emissions Information System User Guide BY M. P. Schrag, A. K. Rao, and G. S. McMahon, Midwest Research Institute Kansas City, MO BY G. L. Johnson, Industrial Environmental Research Laboratory, EPA Research Triangle Park, NC t + 1 The report is an extensive user guide to the Fine Particle Emissions Information System (FPEIS), a computerized database on primary fine particle emissions to the atmosphere from stationary sources, designed to assist engineers and scientists engaged in fine particle control technology development. The FPEIS will contain source test data including particle size distributions; chemical, physical, and bioassay testing results performed on particulate samples; design and typical operating data on particle control systems applied; process descriptions of the sources; and descriptions of the sampling equipment and techniques employed. The FPEIS, a successor to the MRI Fine Particle Inventory developed in 1971, gives detailed instructions for encoding FPEIS datasets, along with a copy of the FPEIS data input form. It discusses procedures which will provide users with access to the FPEIS either by direct computer request for authorized National Computer Center (NCC) accounts or by written request to the EPA project officer. It gives a list of standard data inquiry and retrieval requests, with instructions for their use. The appendix describes EPA's NCC and the generalized database management system used to implement the FPEIS. EPA CONTACT: Johnson, G. L. 8-629-2815

600/2-76-173 PE 1AB012 ROAP/TASK 21 BJV 023 CONTRACT NO. 68-02-1324

Fine Particle Emissions Information System Reference Manual BY M. P. Schrag, A. K. Rao, and G. S. McMahon, Midwest Research Institute Kansas City, MO BY G. L. Johnson, Industrial Environmental Research Laboratory, EPA Research Triangle Park, NC

The report is a basic reference manual on the Fine Particle Emissions Information System (FPEIS), a computerized database on primary fine particle emissions to the atmosphere from stationary sources, designed to assist engineers and scientists engaged in fine particle control technology development. The FPEIS will contain source test data including particle size distributions; chemical, physical, and bioassay testing results performed on particulate samples; design and typical operating data on particle control systems applied; process descriptions of the sources; and descriptions of the sampling equipment and techniques employed. The FPEIS, a successor to the MRI Fine Particle Inventory developed in 1971, report describes in detail the data types contained in the database. It identifies and discusses the input data requirements and protocol. For reference, it includes a list of available information request procedures, and describes the general database management system used to implement the FPEIS. EPA CONTACT: Johnson, G. L. 8-629-2815

600/2-76-174 PE 1AB012 ROAP/TASK 21 BJV 023 CONTRACT NO. 68-02-1324

Fine Particle Emissions Information System: Summary Report (Summary 1976) BY M. P. Schrag, and A. K. Rao, Midwest Research Institute Kansas City, MO

The report summarizes the initial loading of data into the Fine Particle Emissions Information System (FPEIS), a computerized database on primary fine particle emissions to the atmosphere from stationary sources, designed to assist engineers and scientists engaged in fine particle control technology development. The FPEIS will contain source test data including particle size distributions; chemical, physical, and bioassay testing results performed on particulate samples; design and typical operating data on particle control systems applied; process descriptions of the sampling equipment and techniques employed. The FPEIS, a successor to the MRI Fine Particle Inventory developed in 1971, report summarizes 52 series of tests on 33 types of sources and a variety of conventional and novel control devices. The test series contain over 700 test runs or sampling events, utilizing impactors of various types, optical particle counters, and diffusion batteries for the fine particle measurements. Particle size distributions from typical tests are given. The report also describes the FPEIS, summarizes the data acquisition activities, and assesses data acquired relative to the effectiveness of particle control technology and the current state of the FPEIS database. The report discusses particulate sampling and sizing techniques, and particulate-related health effects. EPA CONTACT: Johnson, G. L. 8-629-2815

NEW REPORT ABSTRACTS SECTION

600/2-76-176 PE EHB525 CONTRACT NO. 68-02-1404

Air, Water, and Solid Residue Prioritization Models for Conventional Combustion Sources BY E. C. Eimutis, C. M. Moscowitz, J. L. Delaney, R. P. Quill, and D. L. Zanders, Monsanto Research Corporation Dayton, OH

The report describes mathematical models that were developed to relatively rank the environmental impact of water and solid residue emissions. The water model, similar to an air prioritization model developed in an earlier study, is based on mass of emission, hazard potential of the emission, ambient water loading, and population density in the emission region. Solid emissions were divided into air and water emission components and these contributions were incorporated into air and water prioritization models. The report gives the relative ranking resulting from the application of the models to 56 conventional stationary combustion sources. EPA CONTACT: Venezia, R. A. 8-629-2547

600/2-76-177a PE EHB529 CONTRACT NO. 68-02-2112

Fuel Contaminants: Volume I. Chemistry BY E. J. Mezey, S. Singh, and D. W. Hissong, Battelle Columbus Laboratories Columbus, OH

The report reviews information on the characteristics of solid and liquid fuels. Specifically, it deals with the chemical and physical characteristics of components of the fuel which are sources of sulfur, nitrogen, and trace element pollutants when that fuel is utilized. The review suggests that at least part of the sulfur and most of the nitrogen originate from compounds common to the fuels reviewed (coal, petroleum, tar sand oil, and shale oil). These are primarily organic sulfur and organic nitrogen compounds. For liquid fuels, it was concluded that intrinsic centers of sulfur and nitrogen contamination are found in the colloidal suspensions commonly known as asphaltenes and the more soluble resins. Trace elements are present as oil-soluble compounds in petroleum, tar sand oil, and shale oil. In coal, it was concluded that the nitrogen contaminants are present as organic compounds and that the sulfur is present both as organic and inorganic compounds. Trace elements in coal were categorized into those found principally with the organic matter of coal and those found present principally in the mineral matter associated with coal. EPA CONTACT: Rhodes, W. J. 8-629-2851

600/2-76-178 PE 1BB392 ROAP/TASK 21 AZU 034 GRANT NO. 803207-01

Feasibility Study for a Direct, Air-Cooled Condensation System BY M. D. Henderson, R. W. Beck and Associates Denver, CO

The report gives results of an investigation of the feasibility of utilizing direct, air-cooled condensation systems in coastal environments. Particular attention was devoted to the prevention of corrosion of external surfaces of fintubes, of coil freezing, and of excessive noise. Manufacturers were contacted to determine the extent of their experience in providing this equipment. Owners and operators of dry towers were visited on-site to determine if the equipment can operate satisfactorily under a wide range of load and atmospheric conditions. Performance was also evaluated for the dry tower associated with an 85-MW combined-cycle unit under construction for the Braintree (Massachusetts) Electric Light Department. EPA CONTACT: Chasse, J. P. 8-420-4378

600/2-76-179 PE 1CC614 IN-HOUSE PROJECT

Cost of Municipal Water Supply: A Case Study BY R. M. Clark, R. Stevie, and G. Trygg, Municipal Environmental Research Laboratory, EPA Cincinnati, OH

Problems related to water supply have become increasingly important in recent years. Spreading urban boundaries force many potential water supply customers to locate farther and farther away from available water sources, thereby increasing the costs which must be incurred in order to provide adequate service. Therefore, it is important to systematically and objectively study the factors which affect the costs of water supply management. This report utilizes the Cincinnati Water Works of Cincinnati, Ohio, for a case study to examine these factors and to document the application of a functional approach to the analysis of water supply costs. Such an approach can provide the basis for determining the cost of service for any given consumer within the Water Works service area. Ultimately the functional costing approach outlined in this report, or one similar in nature, will of necessity be used to analyze the impact of regional water supply systems. Data for 10 years are analyzed for each of the functional categories of: support services; acquisition; purification; power and pumping; and transmission. Operating and maintenance costs, capital costs, and labor costs are evaluated. A system evaluation is performed, in which the above costs are aggregated in such a way as to develop "cost zones" for the Water Works service area. Cost comparisons are made between actual charges and constructed costs for the Water Works' 10 largest water users. EPA CONTACT: Clark, R. M. 8-684-7209

NEW REPORT ABSTRACTS SECTION

600/3–76–038 **PE 1BA608** **GRANT NO. 802459**

Toxicity to Fish of Cyanides and Related Compounds – A Review BY P. Doudoroff, Oregon State University Corvallis, OR

The world literature on the toxicity to fish of simple and complex cyanides, nitriles, cyanogen chloride, thiocyanates, and cyanates is reviewed critically and interpretively. Differently determined limits of toxicant concentrations tolerated by various fishes are compared, and their variation with exposure time, the pH, temperature, and dissolved oxygen and mineral content of the water, body size, age, acclimation, etc., is examined. Interactions of free cyanide with other toxic water pollutants also are considered. Available data on effects of sublethal levels of free cyanide on growth, food consumption and utilization, swimming ability, behavior, etc., and observations on avoidance reactions of fish to the toxicant are summarized and their ecological significance is discussed. After a brief introduction to the chemistry of complex metallocyanides and their behavior in dilute solutions, the acute toxicity of the solutions is thoroughly considered and related to comcentrations of their identifiable components. The dominant role of molecular hydrocyanic acid produced by dissociation or photolysis of the metallocyanide complexes as a lethal agent responsible for the toxicity of most of the toxic solutions tested is given particular attention; the relative toxicity of complex metallocyanide ions also is considered. Some conclusions regarding acceptable concentrations of free cyanide in receiving waters are presented. EPA CONTACT: Mount, D. I.

600/3–76–039 **PE 1BA031** **GRANT NO. 1-f1-WP-26**

Limnological Studies of Flathead Lake Montana: A Status Report BY A. R. Gaufin, G. W. Prescott, and J. F. Tibbs, Montana, University of Missoula, MT

Flathead Lake, a dimictic oligotrophic lake located in western Montana, has been the subject of several investigations beginning with Forbes' study of aquatic invertebrates in the lake in 1893. Young in 1935 presented the results of four years of data collecting on the chemistry and biology of the lake. During the last ten years (1964–1974) a number of limnological studies have been conducted dealing wiht the physical, chemical, and biological characteristics of the lake. The objectives of these studies have been to determine the standing crop of phytoplankton and zooplankton during all seasons of the year, to observe the succession, distribution and diversity of planktonic forms, to determine the role of chemical nutrients in relationship to phytoplankton productivity, and to study fish population trends, life histories and seasonal fish distribution of the Flathead Lake system. EPA CONTACT: Maloney, T. E. 8–420–4606

600/3–76–040 **PE 1HA095** **CONTRACT NO. 68–01–2963**

Self-Regulation of Environmental Quality: Impact Analysis in California Local Government BY A. W. Jokela, Center for California Public Affairs Claremont, CA

Recent revisions of guidelines for the preparation of environmental impact statements (EIS) issued by the Council on Environmental Quality have defined clear requirements as to what can be expected in EIS's from Federal agencies. However, such uniformity of procedure and approach has not been extended below the Federal level on either Federal agency requirements or individual State requirements. Further, while the guidelines may specify what is desired in EIS's technical approaches to meeting these objectives may not always be available and universally acceptable. As a part of its series of Socioeconomic Environmental Studies, the Environmental Protection Agency, Office of Research and Development, is conducting research whose objectives are to: 1) improve the technical quality of environmental impact analysis in the areas of Agency responsilitity; 2) improve the ability of the Agency to provide substantive technical review of EIS's prepared by other agencies; and 3) improve the effectiveness of the use of environmental impact analysis in influencing decisionmaking at all governmental levels. This publication is the fourth in a series of reports on environmental impact analysis requirements several State governments have instituted. This report describes implementation of the California law at the local level of government. EPA CONTACT: Kibby, H. V. 8–420–4713

600/3–76–041 **PE 1BA031** **IN-HOUSE PROJECT**

Studies on Lake Restoration by Phosphorus Inactivation BY W. D. Sanville, A. R. Gahler, J. A. Searcy, and C. F. Powers, Environmental Research Laboratory, EPA Corvallis, OR

Cline's Pond, a 0.4 ha farm pond 32 km north of Corvallis, Oregon, was treated with sodium aluminate to evaluate a nutrient inactivation technique to control excessive eutrophication. Primary consideration was given to the evaluation of its ability to scavenge phosphate in the water column, to the prevention of resolubilization of phosphate during the growth season, and to the inhibition of primary production. Interpretation of the results was based on a comparison of limnological data collected after nutrient inactivation with antecedent information obtained the two years prior to the present study. This made some of the results rather ambiguous. However, total phosphate, ammonia, total Kjeldahl nitrogen, iron and manganese were generally lower and dissolved oxygen, transparency and pH suggested some improvement in water quality. The algae appeared to shift from a predominantly blue green to a green population and there was an indication of a reduced algal standing crop. A comparison is given of the results of an aeration study conducted on the same pond two years earlier. Continued observation into a second growth season indicated a reduced effectiveness as compared with the year of treatment. EPA CONTACT: West, C. 8–420–4609

NEW REPORT ABSTRACTS SECTION

600/3–76–042 **PE XH1627** **GRANT NO. 800428**

Nitrate Removal from Water at the Water-Mud Interface in Wetlands BY W. H. Patrick Jr., R. D. Delaune, R. M. Engler, and S. Goton, Louisiana State University Baton Rouge, LA

The oxidized and reduced layers in flooded soil were characterized by vertical distribution of the oxidation-reduction (redox) potential and concentrations of manganous manganese, ferrous iron, sulfide, nitrate and ammonium. The apparent thickness of the oxidized layer was different when evaluated by the distribution of these various components in the profile. Flood water NO_3 removal rates of intermittently-flooded freshwater swamp soils and continuously-flooded saline marsh soils indicated that the area of NO_3 reduction was in the soil, added organic matter increased the rate of NO_3 reduction and the reduction rate was approximately twice as fast in the marsh soil as in the swamp soil. Atmospheric O_2 over a flooded soil increased denitrification up to a concentration of approximately 20%. The N loss appeared to be related to the thickness of the sediments aerobic layer. Ammonium nitrogen in a flooded soil exposed to O_2 from the water column undergoes sequential nitrification and denitrification. Ammonium nitrogen is nitrified in the aerobic zone, diffuses to the anaerobic zone where it is denitrified to N_2 and N_2O and then diffuses from the system. Oxygen reduction rates, NO_3 reduction rates and the effects of added O_2 on NO_3 reduction and redox potential in flooded soils were investigated and indicated that NO_3 added to floodwater rapidly disappeared, O_2 loss from sediments occured rapidly and NO_3 reduction was not inhibited by up to 16 ppm O_2 dissolved in soil suspensions. EPA CONTACT: Sanville, W. 8–420–4767

600/3–76–043 **PE 1FA083** **IN-HOUSE PROJECT**

Availability, Uptake and Translocation of Plutonium within Biological Systems: A Review of the Significant Literature BY A. A. Mullen, and R. E. Mosley, Environmental Monitoring & Support Laboratory, EPA Las Vegas, NV

This report is a selective review of the literature on the availability of plutonium in the environment and its cycling throughout representative biological systems ranging from large biomes covering hundreds of miles to the molecular transformations within individual cells. No attempt was made to develop a comprehensive bibliography. Rather, references were selected for inclusion as representative documentation for the vast spectrum of material that is available on the subject. Important general references are listed separately. Thereafter the literature is described in essay form on a subject basis. References cited by number in the text are listed in complete bibliographic form at the end of the report together with an author index. The majority of the material reviewed is limited to relatively recent publications. EPA CONTACT: Mullen, A. A.

600/3–76–044 **PE 1BA608** **GRANT NO. 802464**

Nutrition of Great Lakes *Cladophora* BY G. C. Gerloff, and G. P. Fitzgerald, Wisconsin, University of Madison, WI

A synthetic culture medium was developed for the laboratory culture of *Cladophora glomerata* from the Great Lakes. Recognition that *Cladophora* requires vitamins B_1 and B_{12} was a key feature in the successful culture of this alga. Systematic modifications of the initial culture solution resulted in an optimum culture medium in which *C. glomerata* routinely produced 500 mg oven-dry algae in a 21-day period. The quantitative requirements of *C. glomerata* for essential inorganic nutrients were expressed primarily as critical cell concentrations, that is minimum cell concentrations which permit maximum yield. *C. glomerata* has relatively low critical N and P concentrations (1.1% and 0.06%, respectively) but very high B (110 ppm) and S (0.15%) critical concentrations. Ortho-, pyro-, meta, and tripoly-P can be utilized in *C. glomerata* growth as can NH_4 and NO_3-N. Phosphite-P is relatively unavailable. Nutrient supplies and limiting nutrients for *Cladophora* sp. growth in the Great Lakes were evaluated by two bioassays, primarily plant analysis and to some extent the Fitzgerald tests. Plant analysis assays for P showed that *Cladophora* P concentrations correlated closely with the recognized pollution of areas sampled. Furthermore, P was limiting or close to limiting in several relatively unpolluted areas. There were indications that elements other than P at times limited *Cladophora* growth. EPA CONTACT: Thomas, N. A.

600/3–76–045 **PE 1HA095** **CONTRACT NO. 68–01–2452**

Impacts of Construction Activities in Wetlands of the United States BY R. M. Darnell, Tereco Corporation College Station, TX

The primary types of construction activity which severely impact wetland environments of the United States include: floodplain surfacing and drainage, mining, impoundment, canalization, dredging and channelization, and bank and shoreline construction. Each type of construction activity is attended by an identifiable suite of physical and chemical alterations of the wetland environment which may extend for many miles from the site of construction and may persist for many years. In turn, each type of physical and chemical modification has been shown to induce a derived set of biological effects, many of which are predictable, in general, if not in specific detail. The most environmentally damaging effects of construction activities in wetland areas, in order of importance, are: direct habitat loss, addition of suspended solids and modification of water levels and flow regimes. Major construction-related impacts also derive from altered water temperature, pH, nutrient levels, oxygen, carbon dioxide, hydrogen sulfide, and certain pollutants such as heavy metals, radioactive isotopes, and pesticides. EPA CONTACT: Kibby, H. V. 8–420–4713

NEW REPORT ABSTRACTS SECTION

600/3–76–046 **PE 1BA608** **CONTRACT NO. 68–01–0154**

Chronic Toxicity of Lindane to Selected Aquatic Invertebrates and Fishes BY K. J. Macek, K. S. Buxton, S. K. Derr, and S. Sauter, Bionomics-EG&G, Inc. Wareham, MA

Representatives of the aquatic invertebrate species of water flea (*Daphnia magna*), midge (*Chironomus tentans*), and scud (*Gammarus fasciatus*) and the fish species of bluegill (*Lepomis macrochirus*), fathead minnow (*Pimephales oromelas*), and brook trout (*Salvelinus fontinalis*) were chronically exposed to various concentrations of lindane in separate flowing water systems. Maximum acceptable toxicant concentrations (MATC) of lindane for the selected species in soft water were estimated using survival, growth, and reproduction as indicators of toxic effects. The MATC was estimated to be between 2.2 and 5.0 ug/1 for midges, between 11 and 19 ug/1 for the water flea, and between 4.3 and 8.6 ug/1 for the scud. For fishes the MATC was estimated between 9.1 and 12.5 ug/1 for bluegills, between 9.1 and 23.5 ug/1 for fathead minnows, and between 8.8 and 16.6 ug/1 for brook trout. The incipient lethal concentration (LC50) for fishes and the 48-hour LC50 for invertebrates was estimated from acute exposures and used to calculate application factors (MATC/LC50). For aquatic invertebrates and lindane the estimated application factors were between 0.010 and 0.024 for midges, between 0.020 and 0.029 for water flea, and between 0.11 and 0.22 for scud. Application factors were estimated between 0.30 and 0.42 for bluegill, between 0.13 and 0.34 for fathead minnows, and between 0.34 and 0.64 for brook trout. EPA CONTACT: Eaton, J. G.

600/3–76–047 **PE 1BA608** **CONTRACT NO. 68–01–0092**

Chronic Toxicity of Atrazine to Selected Aquatic Invertebrates and Fishes BY K. J. Macek, K. S. Buxton, S. Sauter, S. Gnilka, and J. W. Dean, Bionomics-EG&G, Inc. Wareham, MA

Representatives of the aquatic invertebrate species of water flea (*Daphnia magna*), midge (*Chironomus tentans*), and scud (*Gammarus fasciatus*); and the fish species bluegill (*Lepomis machrochirus*, fathead minnow (*Pimephales promelas*), and brook trout (*Salvelinus fontinalis*) were chronically exposed to various concentrations of atrazine in separate flowing-water systems. Maximum acceptable toxicant concentrations (MATC) of atrazine for the selected species in soft water were estimated using survival, growth, and reproduction as indicators of toxic effects. The MATC was estimated to be between 0.11 and 0.23 mg/1 for midges, between 0.14 and 0.25 mg/1 for water fleas, and between 0.06 and 0.14 for the scud. For fishes the MATC was estimated to be between 0.09 and 0.50 mg/1 for bluegills, between 0.21 and 0.52 mg/1 for fathead minnows, and between 0.06 and 0.12 mg/1 for brook trout. The incipient-LC50 for fishes and the 48-hour LC50 for invertebrates was estimated from acute exposures and was used to calculate application factors (MACT/LC50). For aquatic invertebrates and atrazine the estimated application factors were between 0.15 and 0.32 for midges, between 0.02 and 0.04 for water flea, and between 0.01 and 0.02 for scud. Application factors were estimated between 0.01 and 0.07 for bluegills, between 0.01 and 0.03 for fathead minnows, and between 0.01 and 0.02 for brook trout. EPA CONTACT: Eaton, J. G.

600/3–76–048 **PE 1EA077** **CONTRACT NO. 68–03–0271**

Effects, Uptake, and Metabolism of Methoxychlor, Mirex, and 2,4-D in Seaweeds BY H. C. Sikka, G. L. Butler, and C. P. Rice, Syracuse University Research Corporation Syracuse, NY

This report presents the results of a study concerning effects, uptake, and metabolism of mirex, methoxychlor, and 2,4-D in the seaweeds *Ulva* sp., *Enteromorpha* sp., and *Rhodymenia* sp. None of the pesticides, at concentrations corresponding to their maximum solubility in seawater, had any significant effect on photosynthesis, protein, carbohydrate, lipid, chlorophyll, carotenoid or trace metal content of the algae. All three algae removed substantial amounts of mirex and methoxychlor from the medium, but uptake of 2,4-D was extremely low. The rate of uptake of methoxychlor was considerably greater than that of mirex. *Enteromorpha* accumulated considerably more mirex and methoxychlor than *Ulva* or *Rhodymenia*. Both *Ulva* and *Enteromorpha* failed to metabolize either mirex or 2,4-D. *Enteromorpha* metabolized methoxychlor to a limited extent. After 7 days of incubation with carbon-labeled methoxychlor, a major portion of the label in the tissue and medium was present in unchanged methoxychlor. A small amount of radioactive metabolite, 2,2-bis (*p*-methoxyphenyl)-1, 1-dichloroethylene, was detected in both the tissue and medium. In addition, medium contained 2,2-bis (*p*-hydroxyphenyl)-1,1,1-trichloroethane and four unidentified minor radioactive metabolites. Unlike *Enteromorpha, Ulva* did not metabolize methoxychlor. EPA CONTACT: Walsh, C. E.

600/3–76–049 **PE 1AA602** **IN-HOUSE PROJECT**

Methylmercury: Formation in Plant Tissues BY D. D. Gay, Environmental Monitoring & Support Laboratory, EPA Las Vegas, NV

Methylmercury was found in the tissue of the pea plant (*Pisum sativum*) after spraying mercuric nitrate onto the leaves, after planting in mercuric nitrate or phenylmercuric acetate contaminated soil and after infiltration and incubation of stems, leaves, and apices in mercuric nitrate or phenylmercuric acetate solutions. The concentration of mercury added in each experiment was 10 micrograms/gram. Younger pea tissue formed more methylmercury than older tissue, Methylmercury was also found in three different species of plant growing near an abandoned mercury mine. EPA CONTACT: Douglas, G. S. 8–595–2969

NEW REPORT ABSTRACTS SECTION

600/3–76–050 **PE 1BA608** **IN-HOUSE PROJECT**

Mortality, Saltwater Adaptation and Reproduction of Fish During Gas Supersaturation BY G. R. Bouck, A. V. Nebeker, and D. G. Stevens, Western Fish Toxicology Station, EPA Corvallis, OR

Tests were conducted using continuous exposure in shallow water at levels of total dissolved gas pressure ranging from 110–140% of barometric pressure (hyperbaric pressure = 103–410 g/cm^2). Both times to 20% and to median mortality were determined on several life stages of Pacific salmonids (*Oncorhynchus* and *Salmo*) and Largemouth bass (*Micropterus salmoides*). Mean times to 20% mortality at 115% total gas saturation were 309, 154, and 125 hours for adults, smolts and parr. At 120% saturation mean times to 20% mortality were 48, 41 and 53 hours for adults, smolts and parr. At 125% saturation, mean times to 20% mortality decreased to 18, 17, and 24 hours for adults, smolts, and parr. Factors which influenced time to death included genera, life stage, acclimation temperature, activity level, sex and body size. Mortality curves were typically skewed to the right. Gross pathology of gas bubble disease was described relative to these experiments. High gas levels that killed 50% of three species of salmon smolts had no apparent effect on the ability of the survivors to tolerate an immediate transfer into seawater (30 ppt Cl). Long-term (3-month) continuous exposure of adult spring chinook salmon to 110% saturation had no readily apparent adverse impact on the fertilization and hatching of their eggs. EPA CONTACT: Vick, N. 8–783–9586

600/3–76–051 **PE 1BA608** **GRANT NO. 802210**

Toxicity of Copper to Daphnids in Reconstituted and Natural Waters BY R. W. Winner, Miami University Oxford, OH

The toxicity of copper was compared for *Daphnia magna* cultured in reconstituted versus pond water and fed on trout-pellet versus vitamin-enriched, algal foods. Effects of a chronic copper stress were highly variable when animals were tested in reconstituted waters. This variability is thought to be due to variability in the quality of the distilled water matrix. The vitamin-enriched algal food was found to be superior to the trout-granule food in culturing *D. magna*. Control animals lived much longer and test animals were less sensitive to a chronic copper stress. The acute and chronic toxicity of copper was also compared for four species of *Daphnia*. When tested in pond water and fed vitamin-enriched algae, the two largest species (*D. magna* and *D. pulex*) were significantly less sensitive to an acute copper stress than the two smallest species (*D. parvula and D. ambigua*). There was, however, no significant difference in sensitivity to a chronic copper stress when reduced longevity was used as the index. Application factors for the four species varied from 0.47 to 0.62 and were not significantly different. EPA CONTACT: Neiheisel, T. 8–684–8601

600/3–76–052 **PE 1FA628** **IN-HOUSE PROJECT**

Tritium in Plants and Soil BY J. C. McFarlane, W. F. Beckert, and K. W. Brown, Environmental Monitoring & Support Laboratory, EPA Las Vegas, NV

This is a review of literature regarding the fate and consequences of tritium in plants and soils. The kinetics of tritium in plants and soils was reviewed in light of water potential terminology, and some original research data are enclosed to illustrate specific concept. The review cites 70 articles. EPA CONTACT: Douglas, G. 8–595–2969

600/3–76–053 **PE 1AA602** **IN-HOUSE PROJECT**

Plant Uptake of Cadmium from Phosphate Fertilizer BY J. Reuss, H. L. Dooley, and W. Griffis, Environmental Research Laboratory, EPA Corvallis, OR

A preliminary investigation of selected crop plants for cadmium uptake from various sources of commercially available fertilizer was conducted under controlled greenhouse conditions in Corvallis, Oregon. Results indicated statistically significant differences in cadmium content of plant tissue as functions of fertilizer source, mode of application, tissues analyzed, and soil type. The highest level of cadmium accumulation (6 ug/g dry weight) was found in lettuce grown on a course textured acid soil and fertilized at the rate of 100 ug P/g soil with concentrated super phosphate (CSP) containing 174 u Cd/g fertilizer (0.087 u Cd/g soil). It was concluded that these uptakes may be of sufficent magnitude to be of biological significance to consumer organisms. Further study was recommended. EPA CONTACT: Randolph, K. 8–420–4791

600/3–76–054 **PE 1FA083** **IN-HOUSE PROJECT**

Concentration Factors and Transport Models for Radionuclides in Aquatic Environments – A Literature Report BY R. G. Patzer, Environmental Monitoring & Support Laboratory, EPA Las Vegas, NV

The relative risks to man from radionuclides released to the environment depend heavily on their accumulation or concentration by aquatic organisms. The organisms which accumulate those radionuclides present in the environment may be useful as indicators for environmental monitoring purposes. In addition, these organisms may be directly in food chain pathways to humans. Literature is reviewed and summarized in regard to biological concentration of radionuclides in freshwater and marine environments. Concentration factors for elements found in organisms are tabulated for plants, invertebrates, and fish in marine and freshwater environs. Literature is also reviewed on models developed to calculate the possible radiation dose delivered to humans from radionuclides released into aquatic environments. The model approaches summarized range from simple generalized forms which, at best, give order of magnitude estimates to detailed models for a specific area which may be used to guide waste discharge practices. EPA CONTACT: Douglas, G. 8–595–2969

NEW REPORT ABSTRACTS SECTION

600/3–76–055 PE 1BA608 IN-HOUSE PROJECT

Power Plants, Chlorine and Estuaries BY J. H. Gentile, J. Cardin, M. Johnson, and S. Sosnowski, Environmental Research Laboratory, EPA Narragansett, RI

Biological assay systems using indigenous holo- and meroplankton were designed to model the chlorination patterns of power plants. A matrix of chlorine concentrations and exposure patterns permitted the generation of response isopleths that were then applied to developing design criteria. The marine phytoplankter, *Thalassiosira pseudonana* showed a 50% reduction in photosynthesis when exposed to 0.15 ppm Cl_2 for 10 minutes, and complete growth inhibition after 5 minutes exposure to 0.3 ppm. Microzooplankton adults were somewhat less sensitive in that a 5 minute exposure at 2.5 ppm was necessary to produce 50% mortality. Larval and juvenile fish were sensitive to chlorine levels < 0.2 ppm for exposure periods of sixty to ninety minutes. Two field studies were evaluated and compared to laboratory data with specific emphasis on the use of ATP to monitor entrainment and damages. A review of pertinent literature is also included. EPA CONTACT. Gentile, J. H.

600/3–76–056 PE 1BA608 IAG NO. IAG-G155

Salmonid Bioassay of Supersaturated Dissolved Air in Water BY E. Dawley, B. Monk, M. Schiewe, F. Ossiander, and W. Ebel, Northwest Fisheries Center Seattle, WA

Tests were conducted in shallow (0.25 m) and deep (2.5 m) tanks of water at 10C with concentrations of dissolved atmospheric gas ranging from 100% to 127% of air saturation to determine the lethal and sublethal effects on juvenile fall chinook salmon (*Oncorhynchus tshawytscha*) and steelhead trout (*Salmo gairdneri*). Fall chinook salmon (average fork length of 42mm) were much more resistant to supersaturation than juvenile steelhead trout (average fork length of 180 mm). Salmon tested in the shallow tanks at 120% of saturation incurred 50% mortality in 22 days whereas trout tested at the same level incurred 50% mortality in 30 hours. Signs of bas bubble disease were noted on dead fish and on subsamples of live fish from deep water tests at 110% saturation and in shallow water tests at 105% or above. Vertical distribution of both salmon and trout in the deep tanks appeared to compensate for about 10% and 10–15% respectively of effective saturation. Average depth of the fish in deep tanks increased with increased gas concentration. Significant differences in growth and condition factor of the salmon and trout were not found between stressed and control fish during the test period. EPA CONTACT: Bouck, G. R.

600/3–76–057 PE 1BA608 IN-HOUSE PROJECT

Temperature Effects on Young Yellow Perch, *Perca flavescens* (Mitchell) BY J. H. McCormick, Environmental Research Laboratory, EPA Duluth, MN

The effect of temperature on growth of young-of-the-year yellow perch was determined over an 8-week period at constant temperatures from 8° to 34°C. Absolute growth rates peaked at 28°C, but were not significantly less ($P > 0.05$) over the range from 26° to 30°C. Deformities occured at 32°C but at no lower temperatures, and all fish died within 7 days at 34°C. A suggested seasonal temperature cycle for yellow perch habitats is presented, based on the data from this experiment for the summer period of rapid growth and on data from previous studies for other life stages. EPA CONTACT: Vick, N. 8–783–9586

600/3–76–058 PE 1FA628 IN-HOUSE PROJECT

Distribution of Ingested Americium in Chickens and Transport to Eggs BY A. A. Mullen, S. R. Lloyd, and R. E. Mosely, Environmental Monitoring & Support Laboratory, EPA Las Vegas, NV

The soluble citrate complex of americium-241 was orally administered to 20 white Leghorn laying hens daily for 2 weeks. The yolks, whites, and shells from the eggs were analyzed for their americium content. Yolk was the only egg fraction in which radioactivity was observed. The americium-241 activity in yolks reached a maximum on the 14th day of dosing. Biological half-times of 2.00 ± 0.18 days and greater than 33 days were indicated by the average concentration values of americium-241 in yolks laid after the maximum activity was reached. The hens were serially sacrificed at 1, 10, and 20 days after the final administration of americium-241. Tissue samples were collected and the americium content determined in the edible portions and feathers of the hens. Americium was detected in most tissues shortly after dosing; the main concentrations were found in liver and the skeleton, The highest concentration per organ (3.03×10^{-3} percent of the dose) occurred in the liver of the hens sacrificed 10 days after final administration of americium-241. EPA CONTACT: Douglas, G. S. 8–595–2969

NEW REPORT ABSTRACTS SECTION

600/3–76–059 **PE 1BA608** **GRANT NO. 802670**

Removal of Algae in Natural Bodies of Water BY W. J. Oswald, California, University of Berkeley, CA

Floating blue-green algae predominate in Clear Lake during most of the algal growing season. They are subject to concentration by gentle winds which can drive intense concentrations of algae into relatively small areas. Algal concentrations in these scums may vary between 1000 mg and 20,000 mg per liter surface water (1–5 cm deep). Because of this natural flotation and wind-induced concentration only about 2 percent of Clear Lake's surface need be skimmed throughout the algal growing season to decrease the average level of floating algae in the lake. The annual cost of building and operating a single skimming station would be about $50,000 to $60,000 (1974 dollars). The benefits derived by removing nuisance algal scums should support three skimming stations. If an annual harvest of 5000 tons of algae brought $100 per ton, up to 7 stations could be supported. The annual costs of removing nutrients by surface skimming would be about $1.90 to $2.40 per kg N or $15 to $19 per kg P removed for three stations harvesting a total of 1000 tons of algae annually. Tests have shown that the blue-green algae which predominate in the Clear Lake can be concentrated using mechanical straining techniques. However, the first two algal pickup units tested did not perform satisfactorily. New information on algal scum characteristics have been incorporated into the design of the third pickup unit (The U.C. Surface Skimmer) which is now being constructed. Testing and evaluation of the unit will be conducted in Clear Lake. The economic analysis presented herein is contingent upon the successful functioning of this unit. EPA CONTACT: Powers, C. F.

600/3–76–062A **PE 1BA608** **GRANT NO. 800992**

Effect of Hydrogen Sulfide on Fish and Invertebrates: Part I – Acute and Chronic Toxicity Studies BY L. L. Smith Jr., D. M. Oseid, I. R. Adelman, and S. J. Broderius, Minnesota, University of St. Paul, MN

Acute and chronic toxicity of hydrogen sulfide to seven fish species and eight invertebrates were determined in continuous-flow bioassays. Fish species were fathead minnows, goldfish, bluegill, walleye, white sucker, brook trout, and rainbow trout. Invertebrates were *Asellus, Crangonyx, Gammarus, Baetis, Hexagenia, Ephemera, Procambarus,* and *Cambarus.* In 159 acute tests lethal threshold concentration for juvenile fish varied from 0.0087 mg/liter in rainbow trout to 0.0840 mg/liter in goldfish. Except in goldfish, fry stage was up to three times more sensitive than the juvenile. In 96 tests on invertebrates the 96-hr LC50 ranged from 0.020 mg/liter in *Baetis* to 1.070 mg/liter in *Asellus.* Acute toxicity of H_2S to fathead minnows varied 24-fold between 6.5 and 24.0 C. Temperature effects were not as marked on invertebrates. In chronic exposure to H_2S in 29 tests running up to 825 days, maximum no-effect concentration to fish ranged from 0.0004 mg/liter in bluegills to 0.0100 mg/liter in goldfish. No-effect level was determined from growth, survival, reproduction, or swimming performance. In nine chronic tests running up to 138 days, maximum safe levels ranged from 0.0012 mg/liter in *Gammarus* to 0.0152 mg/liter in *Hexagenia.* Application factors relating acute toxic (96-hr LC50 for juveniles) to no-effect levels varied from .231 in rainbow trout to .013 in bluegills and from .091 in *Gammarus* to .048 in *Procambarus.* EPA CONTACT: Hokanson, K. E. F.

600/3–76–062B **PE 1BA608** **GRANT NO. 800992**

Effect of Hydrogen Sulfide on Fish and Invertebrates: Part II – Hydrogen Sulfide Determination and Relationship Between pH and Sulfide Toxicity BY S. J. Broderius, and L. L. Smith Jr., Minnesota, University of St. Paul, MN

An analytical method was developed for the direct determination of ug/liter concentrations of molecular H_2S. The procedure involves bubbling compressed nitrogen through an aqueous sulfide solution to displace H_2S which is collected in a glass bead concentration column and measured colorimetrically. The H_2S concentration is calculated from the determined sulfide displacement rate and by reference to a log linear standard curve relating temperature with the H_2S displacement rate to the H_2S concentration in standard solutions. To permit accurate determination of H_2S from the determined dissolved sulfide concentration and fraction of dissolved sulfide as H_2S for specific conditions of temperature and pH, the apparent linear relationship between pK_1 for $H_2S_{(aq)}$ and temperature was defined. This procedure of calculating H_2S in various waters and effluents was confirmed by the direct technique. The described analytical technique was used to define the relationship between test pH and sulfide toxicity to the fathead minnow. Within the pH range of 7.1 to 8.7, 96-hr LC50 values for molecular H_2S decreased linearly from 57.3 to 14.9 ug/liter with increasing pH. However, the log 96-hr LC50 values of dissolved sulfide increased linearly from 64.0 to 780.1 ug/liter with increasing test pH ranging from 6.5 to 8.7. EPA CONTACT: Hokanson, K. E. F.

600/3–76–063 **PE 1BA608** **GRANT NO. 800430**

Phosphate Reduction and Response of Planton Populations in Kootenay Lake BY R. A. Parker, Washington State University Pullam, WA

The purpose of this research project was to determine the effects of reducing by 90 percent the soluble inorganic phosphate input to Kootenay Lake, British Columbia, Canada, a significant link in the Columbia River system governed by United States-Canadian treaty. Measurements on temperature, transparency, inorganic and organic phosphate, nitrate, ammonium, chlorophyll *a*, copepods, and cladocerans were made during 1971–75, and compared with observations made for three years prior to phosphate reduction in 1969. Only a slight decrease in chlorophyll occurred, although there were important changes in species composition. Total zooplankton levels were not affected, however one genus (*Daphnia*) has virtually disappeared. Data indicate that primary production in the lake was nitrogen limited prior to 1969, phosphate limited two years later. These changes may also be related to the completion in 1972 of Libby Dam in Montana, upstream from the lake on the Kootenay River. EPA CONTACT: Larsen, D. P. 8–420–4755

NEW REPORT ABSTRACTS SECTION

600/3–76–064 **PE 1BA031** **GRANT NO. 800399–06–**

Evaluation of the Algal Assay Procedure BY C. M. Weiss, North Carolina, University of, School of Public Health Chapel Hill, NC

Evaluation of the algal assay bottle test and its relationship to the trophic state or nutrient levels of surface waters was examined in 44 lakes impoundments, and rivers in North Carolina in 345 separate assay sets. Of particular concern was the evaluation of the significance of the pretreatment procedure, autoclaving or filtration, upon growth of the reseeded alga in relationship to the orginal water quality. A limnological data profile was developed for each of the bodies of water sampled. A data processing procedure was used to establish the relationship between water quality data and algal cell density, chlorophyll *a* and productivity. The algal assay procedure provided an indication of limiting nutrient, phosphorus, nitrogen, or both. By clustering all samples of similar nutrient limitation a basic nitrogen, phosphorus relationship emerged. When the ratio of soluble inorganic nitrogen to total soluble phosphorus was greater than 13 the waters were phosphorus limited, when the ratio was in the range of 9–12 both nutrients were limiting, and when the ratio was below 8 nitrogen was limiting. EPA CONTACT: Miller, W. E. 8–420–4775

600/3–76–068 **PE 1AA006** **GRANT NO. 801209**

Ozone and Vascular Tissue Differentiation in Plants BY J. P. Rier Jr., Howard University, Department of Botany Washington, DC

This study is concerned with the influence of ozone on the process of vascular tissue differentiation in plants and the concomitant changes in plant proteins. The test materials consisted of wounded plant intermodes and callus tissues grown, exposed, and studied under controlled laboratory conditions. Ozone was more effective in reducing xylem regeneration in those internodes grown with indole-3-acetic acid than with 2, 4-dichlorophenoxyacetic acid. From the results, it was concluded that plant internodes and callus tissues can be used to study the effects of ozone on certain processes related to plant growth and development. EPA CONTACT: Ashley Jr., W. 8–426–4527

600/3–76–070 **PE 1AA008** **GRANT NO. 800398**

Mechanism of Photochemically Initiated Oxidations BY J. G. Calvert, Ohio State University, Chemistry Department Columbus, OH

Several significant new observations have been make relative to chemical reactions that occur in sunlight-irradiated NO_x/hydrocarbon/aldehyde/CO/SO_2 polluted atmospheres. Many of the primary reactions that are needed to quantitatively evaluate the photooxidation mechanisms of SO_2 in the atmosphere were measured. Rate constants for the reactions of the excited $SO_2(^3B_1)$state of SO_2 with various atmospheric gases, alkanes, alkenes, NO, CO, etc., were determined. In view of these results, the rate of SO_2 photooxidation in the atmosphere is estimated, and the possible role of excited SO_2/alkene interactions that generate aerosols is evaluated. Rate constants for the homogeneous reaction of SO_2 with O_3, NO_3, and N_2O_5 were also estimated. All of these reactions are relatively slow for conditions that usually exist in polluted atmospheres. The unusual reaction of SO_3 with NO_2 was observed, although its importance in the atmosphere cannot be evaluated accurately from the existing data. An evaluation was made of the photochemical smog mechanisms using a computer to simulate the rates of change in various polluted atmospheres. Several important features of special interest in developing control strategies were observed. EPA CONTACT: Bufalini, J. J. 8–629–2422

600/3–76–072 **PE 1HA095** **CONTRACT NO. 68–01–2642**

Ecosystem Impacts of Urbanization Assessment Methodology BY D. L. Jameson, Institute of Ecology Logan, UT

A methodology is developed to use space-time analysis and ecosystem modeling to assess the secondary impacts of wastewater treatment facilities (i.e., urbanization) on the ecosystem. The existing state of the ecosystem is described with emphasis on the dynamic, periodic, trend, and gradient processes. Ecosystem models are used to project consequences of project alternatives. Incremental and synergistic effects are indicated along with suggested operational adjustments to minimize ecosystem impacts from the recommended project. Ecosystem models are described and the literature on impacts is reviewed. A case study of urbanization at Lake George, NY, emphasizes the usefulness of the components of ecosystem models by linking units from several studies with a new model (LAND). This model is described and documented. A case study of a new town (Woodlands, TX) indicates the changes in current methodologies which are required to adopt space-time analysis and ecosystem modeling to the assessment of the effects of urbanization on the ecosystem. EPA CONTACT: Kibby, H. V. 8–420–4713

600/3–76–073 **PE 110302** **GRANT NO. 802214**

Diffraction Technique to Measure Size Distribution of Large Airborne Particles BY A. McSweeney, Georgia Institute of Technology Atlanta, GA

The purpose of this project is to test and demonstrate a coherent optical diffraction technique for measuring the size distribution of large particles. This technique is based on the generation of a transformation matrix which is used to relate the measured diffraction patterns to the size distribution of the samples that produced the patterns. Four types of samples are considered: 1) pinholes in opaque discs, 2) photographic transparencies with opaque circular spots, 3) particles deposited on microscope slides, and 4) aerosols. Computer simulations are performed to assess the accuracy and resolution of the techniques. Although good results are obtained for pinholes in opaque discs, experimental difficulties limit the precision of this technique applied to particles in a transparent medium. Improvements based on a reduction of system noise and an increase in detector sensitivity are discussed and applied to the requirements on number density and size range of particles in a transparent medium. EPA CONTACT: Ellestad, T. G. 8–629–2181

NEW REPORT ABSTRACTS SECTION

600/4-76-016a PE 1AA009 CONTRACT NO. 68-02-1237

Continued Research in Mesoscale Air Pollution Simulation Modeling: Volume I – Analysis of Model Validity and Sensitivity Assessment of Prior Evaluation Studies BY M. K. Kiu, D. C. Whitney, J. H. Seinfeld, and P. M. Roth, Systems Applications, Inc. San Rafael, CA

This report summarizes three independent studies: an analysis of prior evaluative studies of three mesoscale air pollution prediction models (two trajectory models and one grid model), an examination of the extent of validity of each type of model, and an analysis of the sensitivity of grid model predictions to changes in the magnitudes of key input variables. The analysis of prior studies showed that the three models evaluated generally reproduced measured ground-level pollutant concentrations with less than acceptable accuracy. This outcome is the result partly of problems of inadequacies in the models themselves. In the validity study, the results indicate that numerical diffusion can introduce significant error in the grid model, whereas neglect of wind shear and vertical transport are most detrimental in the trajectory approach. The sensitivity analysis assessed the change in magnitude of predicted atmospheric pollutant concentrations due to variations in wind speed, diffusivity, mixing depth, radiation intensity, and emission rate. The results of the sensitivity analysis showed that variations in these key input variables influence predictions according to the following order of decreasing influence: wind speed, emission rate, radiation intensity, mixing depth, vertical diffusivity, and horizontal diffusivity. Moreover, the responses of CO and NO_2 tend to vary linearly with the meteorological and emissions parameters, whereas those of NO and O_3 tend to be nonlinear. EPA CONTACT: Demerjian, K. L. 8-629-4524

600/4-76-016b PE 1AA009 CONTRACT NO. 68-02-1237

Continued Research in Mesoscale Air Pollution Simulation Modeling: Volume II – Refinements in the Treatment of Chemistry and Meteorology BY S. D. Reynolds, J. P. Meyer, T. A. Hecht, D. C. Whitney, J. Ames, and M. A. Yocke, Systems Applications, Inc. San Rafael, CA

This report describes the refinement of a mesoscale photochemical air quality simulation model through studies of selected chemical and meteorological phenomena that contribute to air pollution. The chemistry activities focused on the design of an automatic computer program for evaluating kinetic mechanisms, the improvement of a photochemical mechanism for incorporation in mesoscale models, and the development of a chemical mechanism for describing SO_2 oxidation. The meteorology studies examined the sensitivity of the model to the inclusion of wind shear, algorithms for deriving mass-consistent wind fields, and the treatment of turbulent diffusivities and elevated inversion layers. Alternative numerical techniques for solving the advection/diffusion equation in grid models are evaluated, including various finite difference, particle-in-cell, and finite element methods, in an attempt to find a suitable methodology for accurately calculating the horizontal transport of pollutants. Finally, the report considers the problem of multiday model usage and presents results from a two-day CO simulation of the Los Angeles basin. EPA CONTACT: Demerjian, K. L. 8-629-4524

600/4-76-016c PE A009 CONTRACT NO. 68-02-1237

Continued Research in Mesoscale Air Pollution Simulation Modeling: Volume III – Modeling in Microscale Phenomena BY R. G. Lamb, Systems Applications, Inc. San Rafael, CA

This report develops mathematical techniques that influence the development of urban air pollution but are not resolvable by grid networks used in airshed simulation models. These phenomena include turbulence-generated fluxes of pollutants, turbulence-induced fluctuations in the contaminant concentrations, and subgrid-scale variations in the mean concentration distribution. In addition, the report examines the problem of resolving the spatial details that exist in the mean concentration fields in the vicinity of point and line sources. The analysis concludes with a discussion of the problem of accounting for pollutant dispersion effects caused by buoyancy forces in hot stack exhausts. EPA CONTACT: Demerjian, K. L. 8-629-4524

600/4-76-016d PE 1AA009 CONTRACT NO. 68-02-1237

Continued Research in Mesoscale Air Pollution Simulation Modeling: Volume IV – Examination of the Feasibility of Modeling Photochemical Aerosol Dynamics BY T. N. Jerskey, and J. H. Seinfeld, Systems Applications, Inc. San Rafael, CA

This report reviews the chemical and physical elements to be included in an aerosol model, and it estimates the relative importance of the physical processes for photochemical aerosols. An in-depth assessment is presented of possible pathways of the chemistry of formation of nitrates, sulfates, and organic aerosols in photochemical smog. Finally, the equations governing the evolution of the photochemical aerosols are derived and simplified on the basis of order-of-magnitude calculations of the individual terms. EPA CONTACT: Demerjian, K. L. 8-629-4524

600/4-76-017 PE D621 ROAP/TASK 21 BEK IN-HOUSE PROJECT

Status and Quality of Radiation Measurements of Water BY A. N. Jarvis, R. F. Smiecinski, and D. G. Easterly, Environmental Monitoring & Support Laboratory, EPA Las Vegas, NV

As part of the radiation quality assurance program conducted by the U.S. Environmental Protection Agency, calibrated radionuclide solutions are distributed to participating laboratories for instrument calibration and yield determinations. Laboratory performance studies involving the analysis of radionuclides in environmental media are also conducted. A summary is given of the results of the water cross-check program for 1974. Examination of these results reveals that gross beta is the most difficult (44 percent within the control limits) and tritium is the least difficult (90 percent within the control limits) for the laboratories to analyze. These results indicate the need for improvement in analytical procedures for the radionuclide studies. EPA CONTACT: Douglas, G. 8-595-2969

NEW REPORT ABSTRACTS SECTION

600/4–76–018 **PE 1HD620** **CONTRACT NO. 68–03–0443**

Design of Pollutant-Oriented Integrated Monitoring Systems: A Test Case; Environmental Lead BY D. W. Jenkins, National Institute of Scientific Research Rancho Santa Fe, CA

It is necessary to assure that monitoring measurements are directly related to the population of highest risk and that the major sources of pollutants are clearly identified and quantified. An integrated monitoring system is a systems approach for providing the information necessary to permit efficient control of those sources of pollutants causing major threats to the population of highest risk. A "Workshop for the Design of a Pollutant-Oriented Integrated Monitoring System" convened by EPA in March 1974 summarized the elements of such a systems approach and discussed those imformation needs yet to be satisfied by basic monitoring research. EPA CONTACT: Schuck, E. A.

600/4–76–019 **PE 1HA326** **CONTRACT NO. 68–01–0759**

Monitoring Groundwater Quality: Data Management BY N. F. Hampton, General Electric Company, Center for Advanced Studies, TEMPO Santa Barbara, CA

The growing concern for subsurface water resources will surely be accompanied by an expanding groundwater data base, a data base which is already quite large. This report is intended to point the way towards the efficient management of this data base which will assure that pertinent information is available when and where it is needed. The discussion presented here will describe the requirements of groundwater data management, survey some available capabilities which may serve to satisfy these requirements and identify the means by which these capabilities can be used to accomplish the management of groundwater data. EPA CONTACT: Morgan, G. B.

600/4–76–020 **PE 1HA323** **GRANT NO. 802755–01**

Applicability of the Cyanide Electrode for Measuring Free and Total Cyanide BY A. Schlueter, Central State University Wilberforce, OH

The Orion model 94–06 cyanide electrode was evaluated to determine its applicability to water and wastewaters. The calibration curve was Nernstian over the concentration range of 0.26 to 26 ppm, and the slope of the curve was 59 mv per decade change. This work consisted in studying the response of the cyanide electrode to cyanide when this ion was present in solution in both free and complex forms. The results show conclusively that the electrode responds only to free cyanide in solution and not at all to that complexed to metals. EPA CONTACT: Gales, M. 8–684–7307

600/4–76–021 **PE 1AA009** **CONTRACT NO. 68–02–1293**

Numerical and Experimental Study of Stably Stratified Flow Around Complex Terrain BY J. J. Riley, H. T. Liu, and E. W. Geller, Flow Research, Inc. Kent, WA

A computer program was developed to compute three-dimensional stratified flow around complex terrain for the case of very strong stratification (small internal Froude number). Laboratory experiments were performed for strongly stratified flow past three different terrain models for comparison. The computed results are in fair agreement with the experiments for the cases of two simpler terrain models. The discrepancies are probably attributable to the separated wake in the lee of the models. The agreement was not as good for the case of the more complex terrain. Possible sources of error are discussed in some detail EPA CONTACT: Snyder, W. H. 8–629–2811

600/4–76–02 **PE 1AA009** **CONTRACT NO. 68–02–1293**

Plume Dispersion in Stably Stratified Flows Over Complex Terrain: Phase 2 BY H. T. Liu, and J. T. Lin, Flow Research, Inc. Kent, WA

Laboratory experiments were conducted in a stratified towing tank to investigate plume dispersion in stably stratified flow. First, plume dispersion over an idealized terrain model with a simulated elevated inversion in the atmosphere was investigated. These results were compared with those of experiments previously conducted under simulated ground inversions. Second, plume dispersion in 1-layer stably stratified flows over a realistic terrain was also modeled. The plume dispersion patterns showed a strong interaction between the stratified flow and rugged terrain features. Third, plume dispersion during inversion breakup was simulated. Results indicated that as soon as the convective layer built to reach the plume, pollutants were stirred and carried to the ground. EPA CONTACT: Snyder, W. H. 8–629–2811

600/4–76–023 **PE 1HA326** **CONTRACT NO. 68–01–0759**

Monitoring Groundwater Quality: Methods and Costs BY L. G. Everett, K. D. Schmidt, R. M. Tinlin, and D. K. Todd, General Electric Company, Center for Advanced Studies, TEMPO Santa Barbara, CA

This report describes various groundwater monitoring methods and provides a generalized cost breakdown of the major economic factors for each method. All possible groundwater-related measuring techniques applicable at the land surface, topsoil, vadose zone and zone of saturation are presented. Each monitoring method is described, referenced and illustrated. Estimates of itemized capital and operational costs are presented. The material is presented for in-depth reference purposes without recommendation for least-cost techniques, a least-cost mix of groundwater monitoring approaches, or an optimal information system. EPA CONTACT: Morgan, G. B.

NEW REPORT ABSTRACTS SECTION

600/4–76–024 PE 1HD621 IN-HOUSE PROJECT

Effect of Temperature on Stability of Sulfur Dioxide Samples Collected by the Federal Reference Method BY R. G. Fuerst, F. P. Scaringelli, and J. H. Margeson, Environmental Monitoring & Support Laboratory, EPA Research Triangle Park, NC

This report describes an evaluation of the effect of temperature on the stability of samples collected according to the Environmental Protection Agency procedure for measurement of ambient sulfur dioxide. This evaluation was carried out over the range 35 to 278 micrograms per cubic meter of air sampled. Collected samples were found to decay at a critical temperature-dependent rate. The rate of decay increases five-fold for every 10 degree centigrade increase in temperature over the range 20 to 40 degrees. The rate of decay is independent of concentration over the range studied, and the decay reaction follows first-order kinetics. A mathematical model was developed that allows sample decay to be calculated if the temperature history of the sample is known. Temperature specifications and changes in the procedures necessary to eliminate the decay problem are proposed. EPA CONTACT: Akland, G. G. 8–629–2346

600/4–76–025 PE 1AA009 IN-HOUSE PROJECT

Calculated Actinic Fluxes (290 – 700 nm) for Air Pollution Photochemistry Applications BY J. T. Peterson, Environmental Sciences Research Laboratory, EPA Research Triangle Park, NC

Calculations are presented of the actinic (spherically integrated) solar flux from 290 to 700 nm at solar zenith angles between 0 and 86°. The calculated values are obtained by using a radiative transfer program (developed by DAVE) that accounts for molecular scattering, ozone absorption, and aerosol scattering and absorption. Input data consist of aerosol size distribution, aerosol number and ozone concentrations as a function of height, aerosol index of refraction, and the following as a function of wavelength: ozone absorption coefficient, molecular scattering coefficient, solar constant, and surface reflectivity. The calculated actinic flux values are evaluated for their dependence on variations of surface reflectivity, aerosol amount, ozone amount and station elevation. The variation of the actinic flux with altitude above the surface is discussed with emphasis on the change through the lowest kilometer of the atmosphere. Finally, the flux values presented here are compared to those of Leighton (1961); the differences in the methodology and input data between the two studies are illustrated. These calculated actinic flux data are useful for estimating photodissociation rate constants for application to photochemical air pollution problems. EPA CONTACT: Peterson, J. T. 8–629–4552

600/4–76–026 PE 1HA326 CONTRACT NO. 68–01–0759

Monitoring Groundwater Quality: Monitoring Methodology BY D. K. Todd, R. M. Tinlin, K. D. Schmidt, and L. G. Everett, General Electric Company—TEMPO Santa Barbara, CA

The first section of this report describes the needs, objectives and constraints of monitoring groundwater quality with particular emphasis on the problem as viewed by the United States Environmental Protection Agency, given its legislative mandates in the Federal Water Pollution Control Act Amendments of 1972 (PL 92–500), and the Safe Drinking Water Act of 1974 (PL 93–523). The second section develops a methodology for monitoring groundwater quality degradation resulting from man's activities. The methodology is presented in the form of a series of procedural steps arranged in chronological order. By so doing, a straightforward sequence of actions is outlined which can lead to a groundwater pollution monitoring program in a given area. The third and final section of the report provides information on groundwater quality. A description is given of the geologic framework governing the movement of groundwater, and natural underground water quality. The occurrence of groundwater pollution, including its distribution, mechanisms, attenuation, evaluation, and trends is presented. The constituents in polluted groundwater and the various sources and causes of pollution are reviewed. The section ends with a discussion of water quality in relation to water use. EPA CONTACT: Morgan, G. B. 8–595–2929

600/4–76–027 PE 1AD606 IN-HOUSE PROJECT

Radioiodine Prediction Model for Nuclear Tests BY S. C. Black, and D. S. Barth, Environmental Monitoring & Support Laboratory, EPA Las Vegas, NV

Results of 14 experiments on the air-forage-cow-milk transfer of iodine131 are summarized and used to develop prediction models for dose to the thyroids of infants. The models are based on data from various types of nuclear tests together with data from controlled experiments using contaminating aerosols. This provides a realistic foundation for the predictions and for adjusting the predictions to correct for some types of forage. Equations developed from these studies can be used to predict within a factor of 2 the infinite dose to a 2-gram thyroid from a single contamination event where cows continue to ingest contaminated forage and the subject drinks 0.7 liters of milk per day. This dose, in rads, is equal to 0.37 times the peak exposure rate measured 1 meter above ground, or 0.07 times the integrated air concentration. For wet deposition, it is suggested that the predicted doses be increased by a factor of 10. An equation for pre-test prediction is also developed. Short-lived radioiodines and inhalation during effluent passage have a definite effect on the predicted doses. EPA CONTACT: Douglas, G. 8–595–2969

NEW REPORT ABSTRACTS SECTION

600/4–76–028 **PE 1AA603** **IN-HOUSE PROJECT**

Airborne Lidar RAPS Studies, February 1974 BY J. A. Eckert, J. L. McElroy, D. H. Bundy, J. L. Guagliardo, and S. H. Melfi, Environmental Monitoring & Support Laboratory, EPA Las Vegas, NV

During February 1974, an airborne downlooking LIDAR system was flown in support of the Regional Air Pollution Study being conducted by the U.S. Environmental Protection Agency (EPA) in St. Louis, Missouri. The LIDAR system was used primarily to measure mixing layer height over the metropolitan area during the morning and evening transition periods. The flight plan consisted of south to north and west to east traverses with horizontal data resolution of 1.5 kilometers and a vertical resolution of 30 meters. (One traverse over the greater St. Louis area could be flown in about 10 minutes.) Final data are presented in computer-generated, iso-scattering curves plotted for altitude versus ground-distance along the particular traverse. EPA CONTACT: Eckert, J. A. 8–595–2969

600/4–76–029b **PE 1AA009** **CONTRACT NO. 68–02–1704**

Empirical Techniques for Analyzing Air Quality and Meteorological Data—Part II. Feasibility Study of a Source-Oriented Empirical Air Quality Simulation Model BY W. S. Meisel, and M. D. Tenner, Technology Service Corporation Santa Monica, CA

Meteorological dispersion functions in multiple-source simulation models for urban air quality are usually specified on the basis of data from special field experiments, usually involving isolated sources. In the urban environment, individual sources cannot be isolated. One may, however, ask for a source-receptor relationship which, when summed (or integrated) over all the sources, would minimize the average squared error in prediction of measured values. The feasibility of this approach is demonstrated by application to model-generated data, where the source-receptor relationship is known. EPA CONTACT: Calder, K. L. 8–629–4545

600/4–76–029c **PE 1AA009** **CONTRACT NO. 68–02–1704**

Empirical Techniques for Analyzing Air Quality and Meteorological Data—Part III. Short-Term Changes in Ground-Level Ozone Concentrations: An Empirical Analysis BY L. Breiman, and W. S. Meisel, Technology Service Corporation Santa Monica, CA

An empirical analysis of ambient air quality data for the Los Angeles Basin is used to relate the one- and two-hour changes in oxidant levels in the urban environment to the preceding levels of precursor pollutants and to meteorological variables. The intent was to demonstrate the feasibility of developing a set of empirical difference equations for the production of oxidant over time. The main variables determining one- and two-hour oxidant changes were identified using nonparametric regression techniques. A model for the oxidant changes was developed using nonlinear regression techniques. The implications of the model are discussed. EPA CONTACT: Calder, K. L. 8–629–4545

600/4–76–030b **PE 1AA009** **IN-HOUSE PROJECT**

Atmospheric Dispersion Parameters in Gaussian Plume Modeling: Part II. Possible Requirements for Change in the Turner Workbook Values BY F. Pasquill, Environmental Sciences Research Laboratory, EPA Research Triangle Park, NC

The basis of the original Pasquill-Gifford curves used in the Turner Workbook is restated and consideration given to those features of the curves which are now regarded as specially questionable. Data on crosswind spread from various field tests are reviewed to emphasize the useful working relation which holds between sigma-y and the standard deviation of the wind direction fluctuation. Some new trial calculations of vertical spread are carried out in the light of recent work using the gradient-transfer approach, recent similarity analyses, new observational data on the structure of turbulence in the convective boundary layer, and Deardorff's modeling of the mixed layer. Recommendations are made concerning the use of wind direction fluctuation data for estimating sigma-y, for various adjustments and constraints to be applied as an interim measure to the existing sigma-z curves, and for continuing work required in the progress toward a final revision of the Workbook. EPA CONTACT: Calder, K. L. 8–629–4545

600/4–76–031 **PE 1AA009** **CONTRACT NO. 68–02–1729**

Precipitation Scavenging of Fossil-Fuel Effluents BY M. T. Dana, D. R. Drewers, D. W. Glover, and J. M. Hales, Battelle Pacific Northwest Laboratories Richland, WA

A numerical model for predicting the precipitation scavenging of reactive pollutants from power plant plumes has been developed. The model, called SMICK (Scavenging Model Incorporating Chemical Kinetics), calculates collection, liquid-phase chemical reaction, and desorption, if any, of multiple plume-bound pollutants as they interact with falling raindrops and are ultimately deposited on the surface. Calculations for any specific aqueousphase kinetics mechanism can be performed with the model by expressing the mechanism in appropriate sub-routine form. The model has been tested against field experiment data. EPA CONTACT: Viebrock, H. 8–629–4543

NEW REPORT ABSTRACTS SECTION

600/4–76–032 **PE 1AA003** **CONTRACT NO. 68–02–1081**

Regional Air Pollution Study: Quality Assurance Audits BY J. R. Hribar, Rockwell International Corporation, Air Monitoring Center Creve Coeur, MO

Aerometric data are being collected by the Regional Air Pollution Study (RAPS) for use in developing and evaluating air quality simulation models. In addition to the Regional Air Monitoring System (RAMS), data are also collected by research teams in periodic expeditions to the St. Louis study area. Data from all sources are made available for integration through the RAPS Data Bank. A quality assurance audit of instrument systems employed in the Summer 1975 RAPS Expeditionary Research Program was conducted to check the various systems for accuracy. Additionally such checks provide a basis for determining the extent to which data from different systems may be integrated. This report describes the audit equipment and standards used and problems encountered. Quantitative audit results from individual instrument systems are presented. The audits included analyzers for NO, NO_x, O_3, SO_2, CO, CH_4 and THC measurements. EPA CONTACT: Schiermeier, F. A.

600/5–76–003 **PE 1HA093** **CONTRACT NO. 68–01–2475**

Case Studies of Transit Energy and Air Pollution Impacts BY J. P. Curry, De Leuw, Cather and Company Washington, DC

The paper summarizes analysis of the energy consumption and air pollution impacts of eight case studies of new or improved transit services. The case studies include (a) areawide bus service improvement programs involving route extensions, increased frequencies, new lines, demand responsive service, and fare reductions; (b) new corridor exclusive busway service on the Shirley Highway and San Bernardino Freeway; and (c) new rail transit service in the Philadelphia-Lindenwold corridor. Probabilistic models were developed for each of these three service improvement sceneries to account for key travel demand and transportation system factors affecting energy consumption and air pollution impact levels. Results showed that low patronage response to areawide bus improvements as well as diversion from prior bus service, carpools, etc., and extensive auto access (parkand-ride, kiss-and-ride) to corridor systems reduce expected energy and air pollution gains and may, under certain conditions found in four case studies, result in possible energy use *increases*. Additionally, it was found that auto use for corridor system access may worsen air quality conditions in suburban areas in the vicinity of corridor transit terminal locations. EPA CONTACT: Plotkin, S. 8–755–0646

600/5–76–004 **PE 1HC619** **CONTRACT NO. 68–01–2641**

Evaluation of Water Quality Models: A Management Guide for Planners BY G. P. Grimsrud, E. J. Finnemore, and H. J. Owen, Systems Control, Inc. Palo Alto, CA

This report is designed as a handbook specifically oriented to water quality and water resources planners and managers. It presents a large amount of basic information concerning water quality modeling including procedures for: model evaluation, model selection, integration of modeling with planning activities, and contracting modeling projects. Planners without previous experience in water quality modeling may use the information and procedures included in the handbook to determine whether a water quality model could and should be used in a particular planning program, and which specific model would be cost effective. This includes a step-by-step procedure leading to the rejection or selection of models according to specific project needs. The handbook discusses the implications which accompany the decision to model, including the needs for additional labor and specialized technical expertise which are generated. Methods and procedures for integrating the use and result of water quality models with other activities of the planning process are described as well as the respective merits of in-house and contracted modeling. The handbook also deals with the procedures for obtaining and using contractual services for water quality modeling. Step-by-step instructions are provided for the preparation of solicitations, evaluation of proposals and selection of contractors. EPA CONTACT: Torno, H. C. 8–426–8553

600/7–76–001 **PE EHE623** **CONTRACT NO. 68–01–1981**

Meeting Report: Advanced Fossil Fuels Sector Group, Cincinnati, 31 March 1976 Stanford Research Institute Arlington, VA

The minutes of the third Advanced Fossil Fuels Sector Group Meeting cover the content of the presentations which were made and the discussion which followed. The general areas of concern were: (1) a review of the content of the second Sector Group Meeting with indications of action taken and (2) the development of oil shale processing in which the following areas were addressed: (a) health effects and environmental assessment programs at EPA, ERDA, and DoD, (b) environmental measurements and technology programs at EPA, ERDA, and DoD, and (c) industrial point of view. EPA CONTACT: Foley, G. J. 8–755–0207

600/7–76–002 **PE EHE623** **CONTRACT NO. 68–01–3168**

Proceedings, USEPA, OEMI National Conference on Health, Environmental Effects, and Control Technology of Energy Use Mitre Corporation McLean, VA

These proceedings include the addresses and papers reported at the National Conference on Health, Environmental Effects, and Control Technology of Energy Use held in Washington, D.C., February 9–11, 1976. The symposium was sponsored by the U.S. Environmental Protection Agency Office of Energy, Minerals, and Industry. Sixty papers are presented representing the work of 17 Federal Agencies active in the research and development directed at protection of the nation's environment. EPA CONTACT: Laska, R. M. 8–426–2683

NEW REPORT ABSTRACTS SECTION

600/7-76-003 PE EHE623 CONTRACT NO. 68-01-3188

Directory of Interagency Project Coordinators and Directors Mitre Corporation McLean, VA

This pamphlet includes the names addresses and telephone numbers of the principal people who run the one hundred million dollar Energy Environment Interagency Program. EPA CONTACT: Laska, R. M. 8-426-2683

600/9-76-001 PE 1RW103 IN-HOUSE PROJECT

Handbook for ORD Report Specifications Technical Information Staff, ORD, EPA Cincinnati, OH

This report contains specification required by U.S. Environmental Protection Agency's Office of Research and Development to ensure that the results and conclusions of its various research, development, and demonstration programs are documented in a uniform, cost-effective, and quality manner. The specifications apply to all final scientific and technical reports that document in-house, interagency, grant, and contract research activity. Included are the general format requirements concerning report organization, print size, image area, page numbering, use of illustrations and tables, etc. The essential items and the various sections of a report are illustrated with examples. EPA CONTACT: Gigliotti, G. M. 8-684-7551

600/9-76-007a PE 1AA008 GRANT NO. 803590

Denver Air Pollution Study – 1973 Proceedings of a Symposium – Volume I BY P. A. Russell, Denver, University of, Denver Research Institute Denver, CO

EPA, university, and private researchers conducted a study of Denver's urban plume during the month of November 1973. The objective of the study was to characterize the pollutants that cause the appearance of the visible colored haze, the so-called "Brown Cloud," which frequently occurs over Denver during the fall and winter months. Gaseous and aerosol pollutants, and meteorological parameters were measured periodically under selected conditions. In March 1975, a symposium was held to present and discuss the results of this study. This report, Volume I, contains important research papers given at the symposium. The papers cover local windflow patterns; Lidar observations; Aitken, cloud, and ice nuclei concentrations; and hydrocarbon analyses. EPA CONTACT: Spiller, L. L. 8-629-2181

600/9-76-008 PE 1RW103 IN-HOUSE PROJECT

ORD ADP Workshop Proceedings No. 2 BY D. Swink, Office of Monitoring and Technical Support, EPA Washington, DC

The second ORD ADP workshop focused on the merits of past data acquisition and manipulation techniques and procedures, and provided suggestions for new approaches from the views of both providers and users of ADP resources. Subject areas included instrumentation, process control, and data management aspects of laboratory automation: strengths and weaknesses of scientific analysis; utility of environmental data bases; developments in remote sensing projects, and future developments in EPA ADP resources. EPA CONTACT: Swink, D.

600/9-76-009 PE 1RW103 IN-HOUSE PROJECT

Office of Research and Development Program Guide Office of Financial and Administrative Services, EPA Washington, DC

The Program Guide provides the public with information on the Office of Research and Development's current extramural research program and serves as a guide to Office of Research and Development's key personnel. This publication will be updated each fiscal year. EPA CONTACT: Thompson, J. 8-426-2317

600/9-76-010 PE 1BA608 IN-HOUSE PROJECT

Bioassay Procedures for the Ocean Disposal Permit Program Environmental Research Laboratory, EPA Gulf Breeze, FL

The bioassay procedures given in this manual were developed to provide tests for conducting toxicity evaluations of waste materials considered for ocean disposal under EPA's Ocean Disposal Permit Program. Nine bioassay procedures are described; three of which are considered "special" and are not recommended for routine use. The procedures specify the use of various organisms representing several trophic levels. Both flow-through and static tests are included. Methods given vary in their utility and complexity of performance. The procedures are not intended to be considered "standard methods", but are to be used as reference methods or official methods dependent on the judgement of the EPA Regional Administrator responsible for the management of the permit program. EPA CONTACT: Wilkes, F.

NEW REPORT ABSTRACTS SECTION

600/9-76-011 PE EHE624 IN-HOUSE PROJECT

Proceedings of the First Workshop on Sampling Geothermal Effluents Environmental Monitoring & Support Laboratory, EPA Las Vegas, NV

This is a compilation of papers presented at the first in a series of workshops on environmental monitoring of geothermal energy development held on October 20 and 21, 1975 at the U.S. Environmental Protection Agency's Environmental Monitoring and Support Laboratory in Las Vegas, Nevada. The purpose of this workshop was to generate the exchange of ideas and knowledge needed to develop a set of standard geothermal sampling methods with assurance of quality in those methods. Representatives of industry, universities, and government presented 19 technical papers, 12 of which are published in this document. Their content and the discussions which followed the presentations provided guidance for developing a recognized Referenced Sampling Method Handbook. EPA CONTACT: Douglas, G. 8-595-2969

600/9-76-012 PE 1EA615 IN-HOUSE PROJECT

Analytical Reference Standards and Supplemental Data for Pesticides and Other Selected Organic Compounds BY J. F. Thomson, Health Effects Research Laboratory, EPA Research Triangle Park, NC

This manual lists several hundred compounds of analytical reference standards of insecticides, herbicides, algicides, nematocides, rodenticides and fungicides which are available, mostly in purified form, in subsamples of 100 milligrams to any bona fide pesticide laboratory in the world free of charge. Also included in the manual are miscellaneous data pertinent to pesticidal compounds such as precautionary notes in the handling and storage of highly toxic compounds, the preparation and storage of solutions of standard, residue methodology references, and an index of over 2,400 pesticide equivalent names. EPA CONTACT: Morrison, M. 8-629-2883

600/9-76-013a PE 1RW103 IN-HOUSE PROJECT

ORD Publications Summary, March 1976 Technical Information Staff, ORD, EPA Cincinnati, OH

This summary is a current listing of the Office of Research & Development's final reports on in-house, grant, contract, and interagency projects. Reports are indexed by Title, Subject Area, Performing Organization, Personal Author, Report Number, and Grant, Contract, or Interagency Agreement Number to aid the reader in identifying reports of interest. Instructions on how to order copies of reports are on the inside of the front cover. EPA CONTACT: Tate, A. H. 8-684-7281

600/9-76-016 PE 1HD621 IN-HOUSE PROJECT

Proceedings of the EPA Conference on Environmental Modeling and Simulation BY W. R. Ott, Office of Monitoring and Technical Support, EPA Washington, DC

This document contains the Proceedings of the EPA Conference on Environmental Modeling and Simulation held in Cincinnati, Ohio, on April 19-22, 1976. This national Conference was the first of its kind to cover the state-of-the-art of mathematical and statistical models in the air, water, and land environments. This document contains 164 technical papers on environmental modeling efforts in air quality management, air and water pollutant transport processes, water runoff, water supply, solid waste, environmental management and planning, environmental economics, environmental statistics, ecology, noise, radiation, and health. The Conference was directed toward the technical and administrative communities faced with the need to make environmental decisions and predict future environmental phenomena. The Proceedings are believed to be the most complete summary of environmental modeling efforts currently available. EPA CONTACT: Ott, W. R. 8-426-4153

600/9-76-018 PE 1BC611 IN-HOUSE PROJECT

Summaries of Active Extramural Research Tasks of the Municipal Environmental Research Laboratory 1975 BY W. A. Schwartz, C. Stumpf, and D. Weber, Municipal Environmental Research Laboratory, EPA Cincinnati, OH

Abstracts and statistical information are presented for each active extramural project, as of July 1975. Project directors and project officers for EPA are listed to facilitate contacts by the public. EPA CONTACT: Schwartz, W. A. 8-684-7955

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SAB-73-001	1HA410	**Nitrogeneous Compounds in the Environment** Office of Research and Development, Science Advisory Board, EPA Washington, DC **ORDER FROM: NTIS-PB** 240 702/AS $7.00 **GPO-** EP1.2:N63 – $2.20
600/1-75-001	1GB090	**Federal Noise Effects Research: FY 73 – FY 75 — Abstracted 600/9-75-001a** —Noise Technology Staff, EPA Washington, DC **ORDER FROM: NTIS-PB** 241 751/AS $6.25
600/1-75-002	1CA046	**Formation of Halogenated Organics By Chlorination of Water Supplies — Abstracted 600/9-75-001b** —BY J. C. Morris, Harvard University Cambridge, MA **ORDER FROM: NTIS-PB** 241 511/AS $4.25
600/1-75-003	1CA046	**Virus-In-Water Study of Finished Water from Six Communities — Abstracted 600/9-75-001d** —BY E. W. Akin, D. A. Brashear, E. C. Lippy, and N. A. Clarke, Health Effects Research Laboratory, EPA Cincinnati, OH **ORDER FROM: NTIS-PB** 246 042/AS $3.75
600/1-75-004	1AA001	**Molybdenum – A Toxicological Appraisal** BY L. Friberg, P. Boston, G. Nordberg, M. Piscator, and K. H. Robert, Karolinska Institute Stockholm, Sweden **ORDER FROM: NTIS-PB** 249 458/AS $6.00
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600/1-76-001	1AA601	**Effects of Low Levels of Ozone and Temperature Stress — Abstracted 600/9-76-013a** —BY S. M. Horvath, and L. J. Folinsbee, California, University of Santa Barbara, CA **ORDER FROM: NTIS-PB** 252 309/AS $5.00
600/1-76-002	1EA078	**Role of Mixed Function Oxidases in Insecticide Action — Abstracted 600/9-76-013a** —BY R. L. Metcalf, Illinois, University of Urbana, IL **ORDER FROM: NTIS-PB** 251 709/AS $4.00
600/1-76-003	1EA078	**Effect of Duck Hepatitis Virus on Pesticide Toxicity — Abstracted 600/9-76-013a** —BY W. L. Ragland, Georgia, University of, Poultry Disease Research Center Athens, GA **ORDER FROM: NTIS-PB** 249 351/AS $4.50
600/1-76-004	1EA078	**Chemistry and Mode of Action of Insecticides — Abstracted 600/9-76-013a** —BY T. R. Fukuto, California, University of, Department of Entomology Riverside, CA **ORDER FROM:** Pending
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600/1-76-006	1AA005	**National Environmental Specimen Bank Survey — Abstracted 600/9-76-013a** —BY R. I. Van Hook, and E. E. Huber, Oak Ridge National Laboratory Oak Ridge, TN **ORDER FROM: NTIS-PB** 251 180/AS $7.75
600/1-76-007	1FA082	**Bibliography of the Cat: Revised Edition — Abstracted 600/9-76-013a** —BY E. Berman, and C. G. Liddle, Health Effects Research Laboratory, EPA Research Triangle Park, NC **ORDER FROM: NTIS-PB** 250 939/AS $16.25
600/1-76-008	1EA078	**Mode of Action of Cyclodiene Insecticides — Abstracted 600/9-76-013a** —BY L. A. Crowder, Arizona, University of, Department of Entomology Tucson, AZ **ORDER FROM: NTIS-PB** 251 670/AS $5.00
600/1-76-009	1AA601	**Effects of Oxidant and Sulfate Interaction on Production of Lung Lesions — Abstracted 600/9-76-013a** —BY G. Freeman, and L. T. Juhos, Stanford Research Institute Menlo Park, CA **ORDER FROM: NTIS-PB** 251 729/AS $4.00
600/1-76-010a	1AA601	**Assessment of Toxicity of Automotive Metallic Emissions. Volume I: Assessment of Fuel Additives Emission Toxicity via Selected Assays of Nucleic Acid and Protein Synthesis — Abstracted 600/9-76-013a** —BY D. J. Holbrook Jr., North Carolina, University of Chapel Hill, NC **ORDER FROM: NTIS-PB** 251 231/AS $4.50
600/1-76-010b	1AA601	**Assessment of Toxicity of Automotive Metallic Emissions. Volume II: Relative Toxicities of Automotive Metallic Emissions Against Lead Compounds Using Biochemical Parameters — Abstracted 600/9-76-013a** —BY D. J. Holbrook Jr., North Carolina, University of Chapel Hill, NC **ORDER FROM: NTIS-PB** 251 232/AS $4.50
600/1-76-011	1AA601	**Community Health Environmental Surveillance Studies (CHESS) Air Pollution Monitoring Handbook: Manual Methods — Abstracted 600/9-76-013a** —Health Effects Research Laboratory, EPA Research Triangle Park, NC **ORDER FROM: NTIS-PB** 251 157/AS $6.00

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600/1-76-012	1EA488	**Optimization and Evaluation of a Microelectrolytic Conductivity Detector for the Gas Chromatographic Determination of Pesticide Residues --- Abstracted 600/9-76-013a** --BY R. C. Hall, Purdue University West Lafayette, IN **ORDER FROM: NTIS-PB** 250 451/AS $6.75
600/1-76-013	1CC614	**Methyl Mercury and the Metabolic Responses of Brain Tissue --- Abstracted 600/9-76-013a** --BY R. J. Bull, Health Effects Research Laboratory, EPA Cincinnati, OH **ORDER FROM: NTIS-PB** 252 006/AS $4.00
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600/1-76-018	1AA601	**Toxicology of Metals - Volume I --- Abstracted 600/9-76-013a** --BY L. Friberg, Subcommittee on the Toxicology of Metals Research Triangle Park, NC **ORDER FROM: NTIS-PB** 253 991/AS $9.00
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600/1-76-023	1AA601	**Scientific and Technical Data Base for Criteria and Hazardous Pollutants-1975 ERC/RTP Review** Health Effects Research Laboratory, EPA Research Triangle Park, NC **ORDER FROM: NTIS-PB** 253 942/AS $12.00
600/1-76-024	1AA601	**Regression Using "Hockey Stick" Functions** BY V. Hasselblad, J. P. Creason, and W. C. Nelson, Health Effects Research Laboratory, EPA Research Triangle Park, NC **ORDER FROM: NTIS-PB** 253 576/AS $3.50
600/1-76-025	1EA615	**Pesticide Induced Delayed Neurotoxicity – Proceedings of a Conference** BY R. L. Baron, Health Effects Research Laboratory, EPA Research Triangle Park, NC **ORDER FROM:** Pending
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600/2–74–009a	1BB036 **State-of-The-Art For The Inorganic Chemicals Industry: Inorganic Pesticides — Abstracted 600/9–75–001a** —BY J. Patterson, Illinois Institute of Technology Chicago, IL **ORDER FROM: NTIS-PB** 240 959/AS $4.25
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600/2–75–010	1GB090 **Assessment of the Federal Noise Research, Development, and Demonstration Activities: FY 73 – FY 75 — Abstracted 600/9–75–001d** —BY E. E. Berkau, S. R. Cordle, F. D. Hart, and G. R. Simon, Noise Technology Staff, EPA Washington, DC **ORDER FROM: NTIS-PB** 246 894/AS $6.00

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68-01-1850	600/5-74-033
68-01-1859	600/5-74-032
68-01-1863	600/5-75-004
68-01-1870	670/2-74-052
68-01-1871	600/5-74-002
68-01-1871	600/5-74-016
68-01-1882	600/5-74-030
68-01-1888	600/5-74-018
68-01-1898	600/5-74-015
68-01-1916	600/5-76-001
68-01-1981	600/7-76-001
68-01-2114	600/2-74-001
68-01-2203	600/5-74-025
68-01-2203	600/5-74-026
68-01-2221	600/2-75-011
68-01-2232	600/5-75-015
68-01-2234	600/2-76-016a
68-01-2234	600/2-76-016b
68-01-2250	600/5-75-007
68-01-2293	600/2-76-151
68-01-2411	600/5-75-001
68-01-2442	600/4-75-001
68-01-2452	600/3-76-045
68-01-2471	600/1-76-022
68-01-2475	600/5-76-003
68-01-2634	600/5-76-002
68-01-2637	600/5-74-028
68-01-2641	600/5-76-004
68-01-2642	600/3-76-072
68-01-2671	600/5-76-005
68-01-2940	600/2-75-070
68-01-2940	600/2-76-084
68-01-2940	600/9-76-006
68-01-2963	600/3-76-040
68-01-3118	600/2-76-085
68-01-3188	600/7-76-002
68-01-3188	600/7-76-003
68-02-1718	600/3-76-080
68-02-0003	600/2-76-135a
68-02-0003	600/2-76-135b

PROJECT NO.	REPORT NO.
CONTRACTS	
68-02-0007	650/2-74-064
68-02-0019	650/4-74-037
68-02-0017	650/2-74-047
68-02-0018	650/2-73-047
68-02-0020	650/2-73-026
68-02-0022	650/2-73-015
68-02-0023	650/2-75-006
68-02-0025	650/2-74-085a
68-02-0054	650/2-73-027
68-02-0080	650/1-73-004
68-02-0083	650/1-75-001
68-02-0095	650/5-73-001
68-02-0202	600/2-76-061a
68-02-0204	600/2-75-016
68-02-0205	650/2-73-001
68-02-0206	650/2-73-042
68-02-0213	650/5-73-002
68-02-0214	650/4-74-014
68-02-0216	650/2-73-033a
68-02-0216	650/2-73-033b
68-02-0217	650/2-73-048a
68-02-0217	650/2-73-048b
68-02-0217	650/2-73-048c
68-02-0217	650/2-73-048d
68-02-0218	650/2-74-105
68-02-0221	650/2-75-052
68-02-0223	650/4-73-001
68-02-0224	600/2-76-003
68-02-0226	650/2-74-131
68-02-0227	650/2-74-066
68-02-0228	650/2-74-107
68-02-0230	650/2-74-026
68-02-0230	650/2-74-087
68-02-0246	650/2-74-054
68-02-0247	650/2-74-071a
68-02-0247	650/2-74-071b
68-02-0250	650/2-74-075
68-02-0251	600/2-75-069a
68-02-0251	600/2-76-088
68-02-0256	650/2-73-036
68-02-0264	650/2-73-005
68-02-0265	650/2-75-037
68-02-0268	650/2-75-009
68-02-0270	650/2-74-045
68-02-0272	650/4-74-003
68-02-0273	650/2-73-035
68-02-0273	650/2-74-102
CONTRACTS	
68-02-0273	650/2-74-102a
68-02-0273	650/2-75-022
68-02-0277	650/2-73-004
68-02-0279	650/2-73-003
68-02-0281	650/4-75-018a
68-02-0281	650/4-75-018b
68-02-0284	650/2-74-074
68-02-0284	650/2-74-092
68-02-0285	650/2-74-093
68-02-0286	600/2-76-004
68-02-0286	600/2-76-071
68-02-0286	650/2-74-004
68-02-0287	650/3-74-004a
68-02-0293	600/2-76-165
68-02-0293	650/2-73-041
68-02-0293	650/2-73-041a
68-02-0297	650/2-75-045
68-02-0300	650/2-73-039
68-02-0300	650/2-74-109
68-02-0307	650/2-73-043
68-02-0310	650/4-74-015
68-02-0329	650/1-73-003
68-02-0332	650/2-74-061
68-02-0335	650/4-74-012
68-02-0542	600/1-75-005
68-02-0543	650/2-73-037
68-02-0544	650/2-73-016
68-02-0545	650/2-74-040
68-02-0546	650/2-74-029
68-02-0551	650/2-73-010
68-02-0553	650/4-73-003
68-02-0556	650/9-75-001a
68-02-0556	650/9-75-001b
68-02-0557	650/3-73-002
68-02-0561	650/2-73-025
68-02-0563	650/2-74-014
68-02-0564	650/2-73-050
68-02-0566	650/2-74-044
68-02-0570	650/2-73-040
68-02-0574	650/4-74-009
68-02-0575	650/2-74-094
68-02-0578	650/2-73-052
68-02-0579	650/2-74-016
68-02-0580	650/4-74-011
68-02-0580	650/4-74-040
68-02-0580	650/4-75-026
68-02-0581	650/2-74-060

PROJECT NO.	REPORT NO.
CONTRACTS	
68-02-0584	650/2-75-015
68-02-0585	650/2-73-032
68-02-0586	650/1-75-005
68-02-0587	650/2-73-030
68-02-0588	650/2-73-008
68-02-0590	650/2-74-039
68-02-0591	650/2-74-133
68-02-0592	650/2-75-013a
68-02-0595	650/1-74-003
68-02-0600	650/2-73-007
68-02-0603	650/2-74-031a
68-02-0603	650/2-74-031b
68-02-0605	650/2-75-027a
68-02-0605	650/2-75-027b
68-02-0605	650/2-75-027c
68-02-0609	650/2-75-051a
68-02-0622	650/2-73-028
68-02-0623	650/4-74-013
68-02-0623	650/4-74-021
68-02-0623	650/4-74-024
68-02-0623	650/4-74-025
68-02-0625	650/2-74-103
68-02-0626	600/4-76-014
68-02-0626	650/4-74-022
68-02-0626	650/4-74-026
68-02-0626	650/4-74-028
68-02-0626	650/4-74-029
68-02-0626	650/4-74-033
68-02-0626	650/4-74-039
68-02-0626	650/4-75-003
68-02-0626	650/4-75-009
68-02-0628	650/2-74-023
68-02-0629	600/2-76-101
68-02-0629	650/2-74-009a
68-02-0629	650/2-74-009b
68-02-0629	650/2-74-009c
68-02-0629	650/2-74-009d
68-02-0629	650/2-74-009e
68-02-0629	650/2-74-009f
68-02-0629	650/2-74-009g
68-02-0629	650/2-74-009h
68-02-0629	650/2-74-009i
68-02-0629	650/2-74-009j
68-02-0629	650/2-74-009k
68-02-0629	650/2-74-009l
68-02-0629	650/2-74-009m
68-02-0630	650/2-74-076

PROJECT NO.	REPORT NO.
CONTRACTS	
68-02-0634	650/2-74-002a
68-02-0634	650/2-74-002b
68-02-0635	600/2-76-039
68-02-0636	600/2-75-012
68-02-0636	650/2-75-020
68-02-0637	650/2-74-119a
68-02-0637	650/2-74-119b
68-02-0647	650/2-74-025
68-02-0647	650/2-74-025a
68-02-0648	650/2-75-001a
68-02-0648	650/2-75-001b
68-02-0650	600/2-75-037
68-02-0650	650/2-74-062
68-02-0650	650/2-74-062a
68-02-0652	650/4-74-020
68-02-0653	650/2-74-069
68-02-0654	650/4-74-017
68-02-0656	650/2-74-020
68-02-0657	650/2-74-006
68-02-0658	650/2-73-009
68-02-0660	650/2-75-008
68-02-0662	650/2-74-008a
68-02-0665	650/4-74-049
68-02-0680	650/4-74-010
68-02-0698	650/2-75-068
68-02-0699	650/4-75-005
68-02-0713	650/1-74-013
68-02-0716	650/2-74-055
68-02-0742	650/2-74-039
68-02-0744	650/4-75-014
68-02-0745	650/4-74-042
68-02-0752	600/4-75-009
68-02-0757	650/2-74-046a
68-02-0757	650/2-74-046b
68-02-0760	650/4-74-051
68-02-0771	650/3-75-004
68-02-0778	650/2-74-056
68-02-0782	650/2-74-065
68-02-0788	650/4-74-052
68-02-0792	650/3-75-010
68-02-0798	650/4-74-036
68-02-0799	600/3-76-030
68-02-0800	650/4-74-044
68-02-0994	650/4-74-038
68-02-1006	600/4-76-013
68-02-1010	600/2-76-070
68-02-1010	650/2-74-037a

PROJECT NO.	REPORT NO.
CONTRACTS	
68-02-1011	650/2-74-019
68-02-1013	650/2-75-031
68-02-1015	650/4-74-007
68-02-1068	650/2-74-106
68-02-1074	600/2-76-086a
68-02-1074	650/2-74-078a
68-02-1075	650/2-75-059
68-02-1079	650/2-74-108
68-02-1081	600/3-76-011a
68-02-1081	600/3-76-011b
68-02-1081	600/3-76-011c
68-02-1081	600/3-76-016
68-02-1081	600/4-76-032
68-02-1081	650/3-75-009
68-02-1082	600/2-75-018
68-02-1087	600/2-76-009
68-02-1092	650/2-75-061a
68-02-1093	650/2-74-058
68-02-1093	650/2-74-058a
68-02-1098	650/4-74-023
68-02-1098	650/4-75-001
68-02-1099	600/2-75-078
68-02-1099	600/2-76-153
68-02-1145	650/1-74-009
68-02-1201	650/2-75-050
68-02-1205	600/1-76-010a
68-02-1206	650/4-75-008
68-02-1207	650/4-74-001
68-02-1208	650/2-75-041
68-02-1209	650/2-75-039
68-02-1210	600/1-75-004
68-02-1210	650/2-75-049
68-02-1217	650/3-75-002
68-02-1223	600/2-75-067
68-02-1224	650/2-75-069
68-02-1225	650/2-74-059
68-02-1226	600/1-76-014
68-02-1226	600/1-76-020
68-02-1227	600/2-75-024
68-02-1228	600/2-75-076
68-02-1228	650/2-74-121
68-02-1229	650/2-74-120
68-02-1230	650/2-75-056
68-02-1233	650/4-74-043
68-02-1234	650/4-74-005a
68-02-1234	650/4-74-005b
68-02-1234	650/4-74-005c

PROJECT NO.	REPORT NO.
CONTRACTS	
68-02-1234	650/4-74-005d
68-02-1234	650/4-74-005h
68-02-1234	650/4-74-005l
68-02-1234	650/4-74-005m
68-02-1234	650/4-74-005n
68-02-1235	650/4-74-050
68-02-1236	650/2-75-055
68-02-1237	600/4-76-016b
68-02-1237	600/4-76-016c
68-02-1237	600/4-76-016d
68-02-1237	600/4-76-016A
68-02-1238	650/4-74-006
68-02-1242	650/4-74-016
68-02-1243	600/1-76-021
68-02-1244	600/2-76-170
68-02-1255	650/2-75-007
68-02-1266	650/1-75-004
68-02-1268	650/2-75-029
68-02-1274	600/1-76-019
68-02-1274	650/1-74-008
68-02-1275	600/2-75-048
68-02-1277	650/1-75-002
68-02-1279	650/2-75-054
68-02-1282	650/2-75-028
68-02-1287	600/1-76-018
68-02-1289	600/1-76-005
68-02-1292	650/2-75-053a
68-02-1292	650/2-75-053b
68-02-1293	600/4-76-021
68-02-1293	600/4-76-022
68-02-1295	600/2-76-157
68-02-1297	600/4-76-007
68-02-1302	600/2-75-051
68-02-1303	600/2-75-015
68-02-1303	600/2-75-017
68-02-1303	600/2-76-144
68-02-1303	650/2-74-079
68-02-1303	650/2-74-114
68-02-1303	650/2-74-124
68-02-1305	600/4-76-009
68-02-1306	650/2-74-085b
68-02-1306	650/2-74-086a
68-02-1306	650/2-74-086b
68-02-1308	600/2-75-056
68-02-1308	600/2-76-044a
68-02-1308	600/2-76-044b
68-02-1308	650/2-74-028

PROJECT NO.	REPORT NO.
CONTRACTS	
68-02-1308	650/2-74-072
68-02-1308	650/2-74-098
68-02-1308	650/2-74-098a
68-02-1308	650/2-74-116
68-02-1308	650/2-74-127
68-02-1308	650/2-74-130
68-02-1308	650/2-75-016
68-02-1308	650/2-75-017
68-02-1308	650/2-75-030
68-02-1308	650/2-75-033
68-02-1309	650/2-75-018
68-02-1310	600/4-75-016a
68-02-1310	600/4-75-016b
68-02-1310	650/4-74-035
68-02-1313	600/2-76-142
68-02-1314	650/2-75-042
68-02-1316	600/2-75-054
68-02-1316	600/2-76-035
68-02-1316	600/2-76-046a
68-02-1316	600/2-76-046b
68-02-1316	600/2-76-055
68-02-1316	600/2-76-069
68-02-1316	650/2-74-036
68-02-1316	650/2-74-043
68-02-1316	650/2-74-083
68-02-1318	600/2-75-046
68-02-1318	600/2-76-037
68-02-1318	600/2-76-052
68-02-1318	600/2-76-097
68-02-1318	600/2-76-121
68-02-1318	650/2-74-091
68-02-1318	650/2-74-123
68-02-1319	600/2-75-042
68-02-1319	600/2-75-068
68-02-1319	600/2-76-049a
68-02-1319	600/2-76-049b
68-02-1319	600/2-76-051a
68-02-1319	600/2-76-051b
68-02-1319	600/2-76-051c
68-02-1319	600/2-76-051e
68-02-1319	600/2-76-051f
68-02-1319	600/2-76-051g
68-02-1319	600/2-76-064
68-02-1319	600/2-76-092
68-02-1319	650/2-74-033
68-02-1319	650/2-75-065
68-02-1320	600/2-75-045

PROJECT NO.	REPORT NO.
CONTRACTS	
68-02-1320	650/2-74-021
68-02-1320	650/2-74-041
68-02-1320	650/2-74-082
68-02-1320	650/2-74-117
68-02-1320	650/2-75-019a
68-02-1320	650/2-75-046
68-02-1321	600/2-76-013a
68-02-1321	600/2-76-013b
68-02-1321	600/2-76-150
68-02-1321	650/2-74-101
68-02-1321	650/2-74-115
68-02-1321	650/2-74-122
68-02-1321	650/2-75-057a
68-02-1321	650/2-75-057b
68-02-1321	650/2-75-057c
68-02-1321	650/2-75-057d
68-02-1321	650/2-75-057e
68-02-1321	650/2-75-057f
68-02-1321	650/2-75-057g
68-02-1321	650/2-75-057h
68-02-1321	650/2-75-057i
68-02-1321	650/2-75-057j
68-02-1321	650/2-75-057k
68-02-1322	600/2-76-010
68-02-1322	600/2-76-119
68-02-1323	600/2-75-066
68-02-1323	600/2-75-073
68-02-1323	600/2-76-002
68-02-1323	600/2-76-014
68-02-1323	600/2-76-015
68-02-1323	600/2-76-054
68-02-1323	600/2-76-056
68-02-1323	600/2-76-076
68-02-1323	600/2-76-099
68-02-1323	600/2-76-130
68-02-1323	600/2-76-167
68-02-1323	650/2-74-052
68-02-1323	650/2-74-099
68-02-1323	650/2-74-100
68-02-1323	650/2-75-034
68-02-1323	650/2-75-038
68-02-1324	600/2-75-020
68-02-1324	600/2-76-001
68-02-1324	600/2-76-040
68-02-1324	600/2-76-041
68-02-1324	600/2-76-066
68-02-1324	600/2-76-067

PROJECT NO.	REPORT NO.
CONTRACTS	
68-02-1324	600/2-76-120
68-02-1324	600/2-76-133
68-02-1324	600/2-76-172
68-02-1324	600/2-76-173
68-02-1324	600/2-76-174
68-02-1324	650/2-74-073
68-02-1324	650/2-75-044
68-02-1324	650/2-75-066
68-02-1325	600/2-76-087
68-02-1325	600/2-76-149
68-02-1325	600/2-76-155
68-02-1325	650/2-74-097
68-02-1325	650/2-74-118
68-02-1325	650/2-75-021
68-02-1328	600/2-75-021a
68-02-1328	650/2-74-112
68-02-1329	650/2-75-032a
68-02-1329	650/2-75-032b
68-02-1329	650/2-75-032c
68-02-1329	650/2-75-032d
68-02-1331	600/2-76-079
68-02-1332	600/2-76-161a
68-02-1332	600/2-76-161b
68-02-1332	600/2-76-166
68-02-1336	600/2-76-143a
68-02-1336	600/2-76-143b
68-02-1339	650/2-74-067
68-02-1348	650/2-74-090
68-02-1352	650/2-74-030
68-02-1353	600/2-76-065
68-02-1353	650/2-74-088
68-02-1360	600/2-76-098a
68-02-1360	600/2-76-098b
68-02-1363	650/4-74-019a
68-02-1363	650/4-74-046
68-02-1363	650/4-75-011
68-02-1363	650/4-75-013
68-02-1364	600/2-75-014
68-02-1365	650/2-75-060
68-02-1367	650/2-73-005a
68-02-1367	650/2-73-005b
68-02-1398	600/2-76-073
68-02-1398	600/2-76-080
68-02-1398	600/2-76-081
68-02-1398	600/2-76-083
68-02-1398	600/2-76-159
68-02-1401	600/2-76-047

PROJECT NO.	REPORT NO.
CONTRACTS	
68-02-1404	600/2-76-124
68-02-1404	600/2-76-176
68-02-1405	600/2-76-036a
68-02-1405	600/2-76-036b
68-02-1405	600/2-76-036c
68-02-1405	600/2-76-036d
68-02-1405	600/2-76-036e
68-02-1405	600/2-76-036f
68-02-1405	600/2-76-036g
68-02-1405	600/2-76-036h
68-02-1405	600/2-76-036i
68-02-1405	600/2-76-036j
68-02-1405	600/2-76-036k
68-02-1406	600/2-76-048a
68-02-1406	600/2-76-048b
68-02-1406	650/2-75-026a
68-02-1406	650/2-75-026b
68-02-1409	600/2-76-072
68-02-1411	600/2-76-122
68-02-1412	600/2-76-093b
68-02-1412	600/2-76-160a
68-02-1436	650/2-75-035
68-02-1438	600/2-75-013a
68-02-1438	600/2-76-077a
68-02-1439	650/2-75-064
68-02-1453	600/2-76-125
68-02-1480	600/2-76-164
68-02-1480	650/2-74-129
68-02-1480	650/2-74-129a
68-02-1485	600/2-76-090
68-02-1487	650/2-75-024a
68-02-1496	600/2-76-154a
68-02-1496	600/2-76-154b
68-02-1496	650/2-75-058a
68-02-1660	600/2-76-059
68-02-1701	600/1-76-010b
68-02-1703	600/1-76-012
68-02-1704	600/4-76-029a
68-02-1704	600/4-76-029b
68-02-1704	600/4-76-029c
68-02-1714	600/3-76-018a
68-02-1714	600/3-76-018b
68-02-1722	600/2-75-053
68-02-1723	600/1-76-001
68-02-1727	600/1-76-017
68-02-1728	600/4-76-008
68-02-1728	600/4-76-015

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CONTRACTS	
68-02-1729	600/4-76-031
68-02-1731	600/2-76-034
68-02-1740	650/4-75-024a
68-02-1740	650/4-75-024b
68-02-1743	600/2-76-171
68-02-1748	600/2-76-096
68-02-1749	600/2-76-062
68-02-1752	650/2-75-062
68-02-1753	600/3-75-003a
68-02-1753	600/3-75-003b
68-02-1755	600/2-76-169
68-02-1767	600/4-76-037
68-02-1773	600/2-75-077
68-02-1792	600/2-75-052
68-02-1802	600/2-75-074
68-02-1808	650/2-75-040
68-02-1814	600/2-75-050
68-02-1816	600/2-76-042
68-02-1819	600/2-76-038
68-02-1831	600/2-76-057
68-02-1833	600/4-75-005a
68-02-1833	600/4-75-005b
68-02-1834	600/2-76-138
68-02-1835	600/2-76-053
68-02-1843	600/2-76-102
68-02-1851	650/2-75-005a
68-02-1851	650/2-75-005b
68-02-1859	600/2-76-093a
68-02-1859	600/2-76-137
68-02-1869	600/2-76-118
68-02-1874	600/2-76-032a
68-02-1874	600/2-76-032b
68-02-1874	600/2-76-032c
68-02-1874	600/2-76-032d
68-02-1874	600/2-76-032e
68-02-1875	600/2-76-140
68-02-1882	600/2-76-012a
68-02-1882	600/2-76-012b
68-02-1944	600/1-76-009
68-02-1973	650/2-73-045
68-02-2012	650/2-73-044
68-02-2110	600/2-76-089a
68-02-2110	600/2-76-089b
68-02-2110	600/2-76-089c
68-02-2112	600/2-76-177a
68-02-2114	600/2-76-141
68-02-2323	650/2-75-063
CONTRACTS	
68-02-4191	600/2-76-008
68-03-0006	670/2-73-052
68-03-0032	670/2-73-014
68-03-0032	670/2-73-015
68-03-0032	670/2-73-016
68-03-0046	670/2-73-013
68-03-0047	670/5-74-003
68-03-0049	670/2-73-006
68-03-0050	670/2-73-066
68-03-0060	670/2-73-056
68-03-0089	670/2-73-053A
68-03-0089	670/2-73-053A-P
68-03-0089	670/2-73-053B
68-03-0089	670/2-73-053C
68-03-0089	670/2-73-053D
68-03-0089	670/2-73-053E
68-03-0089	670/2-73-053F
68-03-0089	670/2-73-053G
68-03-0089	670/2-73-053H
68-03-0089	670/2-73-053I
68-03-0089	670/2-73-053J
68-03-0089	670/2-73-053K
68-03-0089	670/2-73-053L
68-03-0089	670/2-73-053M
68-03-0089	670/2-73-053N
68-03-0089	670/2-73-053O
68-03-0089	670/2-73-053P
68-03-0095	670/2-74-019
68-03-0095	670/2-74-020
68-03-0095	670/2-74-021
68-03-0102	670/2-75-045
68-03-0123	670/2-75-024
68-03-0126	670/1-75-001
68-03-0128	670/2-75-023
68-03-0138	670/2-74-078
68-03-0140	670/2-75-049
68-03-0144	600/2-76-198
68-03-0145	670/2-75-014
68-03-0148	670/2-75-038
68-03-0152	600/2-75-035
68-03-0154	670/2-74-033
68-03-0154	670/2-74-045
68-03-0154	670/2-74-086
68-03-0156	670/2-73-086
68-03-0179	670/2-74-040
68-03-0183	670/2-74-037
68-03-0183	670/2-74-038

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CONTRACTS	
68-03-0183	670/2-74-065
68-03-0183	670/2-74-066
68-03-0183	670/2-74-068
68-03-0193	670/5-75-001
68-03-0203	670/2-75-012
68-03-0220	670/2-74-056
68-03-0221	670/2-75-007
68-03-0228	670/2-75-004
68-03-0233	660/2-73-026
68-03-0244	670/2-74-095a
68-03-0244	670/2-74-095b
68-03-0250	600/2-76-146
68-03-0251	600/2-76-175a
68-03-0251	600/2-76-175b
68-03-0260	670/2-74-082
68-03-0261	600/3-76-071a
68-03-0261	600/3-76-071b
68-03-0262	670/2-74-087
68-03-0262	670/2-75-067
68-03-0268	670/2-74-003
68-03-0271	600/3-76-048
68-03-0272	600/2-75-062
68-03-0272	670/2-75-011
68-03-0283	670/2-74-039
68-03-0286	600/2-75-041
68-03-0288	660/3-75-024
68-03-0298	660/3-75-018
68-03-0302	600/2-76-116
68-03-0327	670/2-75-066
68-03-0334	600/2-75-038
68-03-0335	600/2-76-145
68-03-0349	600/2-76-180
68-03-0409	600/2-75-065
68-03-0409	600/2-76-006
68-03-0417	600/2-76-181
68-03-0426	600/2-75-027
68-03-0430	600/2-76-050
68-03-0439	660/3-75-037
68-03-0442	600/2-76-105
68-03-0443	600/4-76-018
68-03-0455	600/2-76-103
68-03-0470	600/2-75-040
68-03-0499	600/2-76-058
68-03-2016	600/7-76-004a
68-03-2016	600/7-76-004b
68-03-2052	600/3-75-011
68-03-2053	600/2-76-078

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CONTRACTS	
68-03-2121	600/2-76-115
68-03-2136	660/2-75-011
68-03-2139	600/2-76-117
68-03-2176	600/3-76-034
68-03-2395	600/2-76-148
GRANTS	
AP 01186	650/3-74-003
AP-01269-02	650/2-74-005
EC-00281	670/9-73-035
EC-0030-03	670/2-73-089A
EC-0030-03	670/2-73-089B
EC-00600	670/5-74-002
EP-00242	670/2-74-027
EP-00248	670/2-73-023
EP-00250	670/2-73-063
EP-00254	670/2-73-085
EP-00257	670/2-73-065
EP-00259	670/2-73-072
EP-00261	670/2-73-048
EP-00262-02	670/2-73-009
EP-00265	670/2-73-083
EP-00266	670/2-73-039
EP-00268	670/2-73-061
EP-00274	670/2-73-090
EP-00276-04	670/2-73-005
EP-00279	670/2-73-011
EP-00283	670/2-73-025
EP-00302	670/2-73-051
EP-00304	670/2-73-087
EP-00316	670/2-73-041
EP-00319	670/2-73-034
EP-00328	670/2-73-095
EP-00329	660/2-73-038
EP-00329	670/2-73-038
EP-00329	670/2-75-053
EP-00362	670/2-73-030
EP-00386	670/2-73-049
EP-00393	670/2-73-021
EP-00458	670/5-73-020
EP-00458	670/5-74-001
EP-00500-01	670/2-74-014
EP-00829-01	660/2-74-081
EP-01030	670/5-74-006
P5-01-1805	600/1-75-002
UI-00509	670/2-73-057
UI-00557	670/2-73-017
WP 01351-01	660/3-74-014

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GRANTS	
WP-01322-02	670/2-73-027
WPD 184-01-67	660/2-74-030
WPD-112-01-66	670/2-75-054
WPRD 121-01-68	670/2-73-024
WPRD 139-01-68	600/2-75-060
WPRD 16-01-67	670/2-75-037
WPRD 185-01-68	660/2-73-015
WPRD 23-01-68	670/2-73-098
WPRD 242-01	670/2-73-092
WPRD 247-01	670/2-74-061
WPRD 263-01-68	600/2-76-027
WPRD 263-01-68	600/2-76-028
WPRD 263-01-68	600/2-76-029
WPRD 263-01-68	600/2-76-030
WPRD 263-01-68	600/2-76-031
WPRD 3-01-68	660/2-74-035
WPRD 30-01-0067	670/2-73-096
WPRD 4-01-67	670/2-74-077
WPRD 4-01-67	670/2-75-027
1-f1-WP-26, 212	600/3-76-039
11010 DYO	670/2-75-060
11010 ELP	670/2-73-024
11010 ENK	670/2-73-103
11010 EZQ	670/2-73-098
11010 FAC	600/2-75-049
11010 FAC	600/3-76-003
11010 FLQ	670/2-73-050
11010 FYM	670/2-73-033
11010 GAK	600/2-76-134
11010 GWI	600/2-73-004
11020 FAM	670/2-74-079
11020 FAN	670/2-73-071
11020 FAU	600/2-75-071
11020 FAX	670/2-75-020
11022 ELK	670/2-74-022
11022 FLV	670/2-75-035
11023 EKC	670/2-75-019
11023 FAR	670/2-75-010
11023 FAS	670/2-73-067
11024 EVF	600/2-73-002
11030 HJP	670/2-74-096
11060 DRO	660/2-73-038
11060 FRQ	600/2-75-030
11060 GVT	670/2-74-062
12010 DNF	660/2-74-050
12010 DOT	670/2-74-059
12010 DRH	660/2-73-033

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GRANTS	
12010 DSA	670/2-74-042
12010 FNM	660/2-73-032
12010 FXD	670/2-75-018
12010 GUG	600/2-75-028
12020 EGC	600/2-76-123
12020 ERM	670/2-74-044
12020 FOH	600/2-76-195
12040 DEH	660/2-74-069
12040 DRY	660/2-74-008
12040 EJU	660/2-75-004
12040 GQD	660/2-73-028
12040 HDU	660/2-74-086
12050 GTR	660/2-75-020
12060 DFF	660/2-74-027
12060 DQV	660/2-73-015
12060 EGV	660/2-74-031
12060 EIG	660/2-74-088
12060 EKQ	660/2-74-012
12060 FSC	660/2-74-093
12060 ESY	660/2-74-035
12060 FAK	660/2-74-028
12060 FLL	660/2-74-014
12060 FRV	660/2-73-020
12060 FRW	660/2-73-021
12060 FYG	660/2-74-060
12060 HCW	660/2-74-059
12060 HFY	660/2-74-092
12060 HNG	660/2-74-046
12060 HPC	660/2-75-002
12070 HEK	660/2-73-023
12080 GCH	660/2-74-040
12090 HLO	660/2-74-039
12110 GLP	660/2-73-018
12120 FYV	660/2-73-037
12120 GLE	660/2-74-007
12120 HMZ	660/2-75-006
12130 DBF	660/2-73-010
12130 EKK	660/2-74-020
12130 HFX	660/2-73-036
12130 HRA	660/2-74-055
13020 DTV	660/2-74-005
13020 DWH	660/2-74-033
13020 EBL	660/2-74-032
13040 DFN	660/2-74-030
13040 ERR	660/2-74-009
13040 EVM	660/2-74-047
13040 FYK	660/2-74-057

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GRANTS		GRANTS	
14010 EFJ	670/2-73-092	16080 DYJ	660/2-74-016
14010 EFL	670/2-73-054	16080 FBH	660/2-73-022
14010 EFN	670/2-73-093	16080 FWE	600/2-74-003
14010 FWW	600/2-76-114	16080 FYW	660/2-73-025a
14010 GCM	600/2-76-111	16080 FYW	660/2-73-025b
14010 HIN	600/2-76-106	16100 FWO	660/3-73-018
14010 HQC	670/2-74-009	16100 PAK	660/2-73-017
14020 EHW	660/2-74-019	16110 GEW	600/5-74-013
14020 FVW	660/2-74-037	16130 FDQ	660/2-73-012
14040 FVD	660/2-74-018	16130 GNK	660/2-73-011
14040 FZC	670/2-73-080	16130 GSD	660/2-73-003
15010 PBK	670/2-73-088	16130 HKK	660/2-73-004
15020 HKQ	670/2-74-063	17010 EBN	670/2-73-027
15030 FMZ	660/2-73-035	17020 FPF	670/2-74-012
15030 HIM	660/2-74-043	17030 DMA	670/2-73-074
15080 EJQ	670/2-73-099	17030 DUW	670/2-74-047
15080 HET	670/2-73-068	17030 FBH	600/2-75-039
15030 HGV	600/2-76-127	17040 DSR	670/2-74-077
16010 DBU	660/3-74-034	17050 DBI	670/2-74-018
16010 DCK	660/3-73-002	17050 DFJ	600/2-75-032
16010 DFI	660/3-73-001	17050 EEY	670/2-74-048
16010 DHN	660/3-73-003	17060 DNU	670/2-73-029
16010 EDJ	660/3-73-006	17060 EYZ	670/2-73-082
16010 EJH	660/3-73-015	17070 HDA	670/2-74-004
16010 ELF	660/3-74-017	17080 FSF	670/2-73-064
16010 EQO	660/2-74-010	17080 GCI	600/2-76-022
16020 DHD	670/2-73-079	17080 HHV	670/2-74-080
16020 EDG	660/2-74-021	18050 DET	660/3-74-003
16020 EGG	660/3-74-026	18050 DFQ	660/3-73-016
16020 GIY	670/4-74-004	18050 DIJ	660/3-73-020
16030 ELZ	660/2-73-027	18050 DMB	660/3-73-017
16040 FRL	660/2-73-008	18050 DPL	660/3-73-019
16050 DDK	660/3-73-009	18050 ELT	660/3-74-006
16050 DIL	660/2-74-082	18050 FLS	660/3-73-004
16050 DIL	660/2-74-083	18080 DFU	660/3-74-014
16050 DIL	660/3-73-011	18080 FBW	660/3-74-031
16050 DXM	660/3-73-008	800042	650/2-75-002
16050 ESP	660/3-74-002	800055	660/2-73-032
16050 GQQ	660/3-73-025	800055	670/2-73-032
16070 DEP	660/3-74-004a	800055	670/2-74-083
16070 DEP	660/3-74-004b	800055	670/2-74-084
16070 DGO	660/3-75-025	800150	650/2-74-034
16070 DGY	660/3-73-010	800171	600/3-76-021
16070 EKZ	660/3-73-005	800209	650/3-75-005
16070 FBY	660/2-73-029	800230	600/1-76-015
16080 DPC	600/2-76-005a	800250	660/2-74-091
16080 DPC	600/2-76-005b	800261	660/2-73-019

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GRANTS	
800278	660/2-74-052
800278	660/2-74-084
800294	660/2-75-014
800312	660/2-75-017
800316	650/2-74-110
800351	670/2-74-032
800354	600/2-75-029
800355	600/3-76-069
800356	670/2-75-039
800359-02	600/4-76-034
800364	660/2-75-009
800365	660/3-75-013
800369	660/3-73-009
800371	600/3-76-022
800372	600/3-76-023
800373	660/3-74-016
800384	600/1-76-008
800397	650/4-74-032
800397	650/4-74-045a
800397	650/4-74-045b
800398	600/3-76-070
800399-06-01	600/3-76-064
800400	660/2-74-005
800401	660/2-74-033
800426	600/2-76-019
800426	660/2-74-049
800428	600/3-76-042
800430	600/3-76-063
800432	670/2-75-033a
800432	670/2-75-033b
800432	670/2-75-033c
800432	670/2-75-033d
800435	660/3-75-014
800504	660/3-75-027
800510	600/3-76-060
800510	660/3-73-022
800536	660/3-75-021
800602	670/2-74-030
800605	660/3-75-004
800608	660/3-75-022
800609	660/3-75-006
800610	600/3-76-065
800610	660/3-75-005
800613	660/2-73-012
800613	660/2-74-085
800613	660/3-75-002
800613	660/3-75-038

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GRANTS	
800625	600/2-76-193
800650	670/2-74-013
800650	670/2-75-056
800652	670/2-74-015
800662	600/4-75-004
800662	650/4-75-015
800674	670/5-74-004
800677	650/3-75-003
800678	660/2-74-003
800680	660/2-73-024
800685	670/2-73-060
800688	670/2-75-031
800700	600/3-76-009
800704	660/3-75-017
800707	670/2-73-022
800731	660/2-75-008
800736	660/3-74-025
800745	670/2-74-070
800746	660/2-74-046
800747	660/2-74-025
800766	660/2-75-021
800766	670/2-74-016
800767	600/2-76-187
800767	600/2-75-190
800767	660/2-74-063
80076z	670/2-74-075
800778	660/3-74-028
800781	600/2-75-023
800786	670/2-75-040
800798	600/2-75-019
800842	650/2-74-011
800845	650/3-75-006
800852	600/2-76-139
800853	660/2-74-029
800854	660/2-74-071
800857	600/2-74-009a
800857	600/2-74-009b
800857	600/2-74-009c
800863	600/2-76-186
800866	650/2-73-011
800869	650/2-75-067
800897	600/2-75-063
800904	660/2-74-061
800909	660/2-74-004
800916	650/3-75-011
800921	660/2-74-048
800923	660/2-75-013

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GRANTS	
800929	600/2-76-060
800935	660/2-74-074
800938	670/2-75-030
800940	600/3-76-061A
800940	600/3-76-061B
800941	670/2-75-046
800943	660/2-74-053
800949	650/3-75-008
800950	650/2-74-095
800966	670/2-74-049
800984	600/3-76-024
800989	660/3-74-027
800991	660/2-74-079
800992	600/3-76-062A
800992	600/3-76-062B
800994	660/3-74-033
800997	660/2-73-002
801000	600/5-74-022
801003	660/3-75-003
801029	660/2-73-027
801035-01	600/3-76-036
801036	660/3-74-007
801039	660/3-73-018
801040	660/2-75-005
801041	600/2-75-072
801062	660/3-74-029
801065	660/2-74-090
801102	600/4-76-002
801113	650/4-75-012
801120	650/4-74-004
801124-03	660/3-75-026
801128-02-2	600/3-76-007
801136	650/3-74-006
801159	670/2-74-057
801174	650/3-74-011
801178	600/3-76-004
801187	600/2-76-158
801192	600/2-75-055
801207	660/2-73-030
801209	600/3-76-068
801226	600/5-74-027
801234	600/5-74-011
801236	670/2-75-006
801273	600/2-76-128
801276	600/2-76-108
801282	670/2-74-076a
801282	670/2-74-076b

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GRANTS	
801289	670/2-74-035a
801289	670/2-74-035b
801289	670/2-74-036a
801289	670/2-74-036b
801303	670/2-73-091
801321	650/2-73-020
801336	650/2-75-036
801340	650/3-74-007
801342	670/2-74-031
801343	660/3-74-020
801349	670/2-75-016
801353	600/2-76-110
801361	660/3-73-023
801362	660/3-73-024
801363	660/3-75-033
801374	600/5-73-016
801376	600/5-73-015
801381	660/3-75-030
801393	650/1-74-010
801397	600/2-75-043
801399-02	600/2-76-020
801400	660/2-75-007
801411	600/5-74-020
801417	660/2-74-077
801419	600/5-75-003
801432	660/2-75-001
801446	650/2-74-007
801454	660/2-75-003
801454-01	660/2-74-024
801454-03	600/2-76-189
801470	650/1-74-012
801473	600/5-73-012a
801473	600/5-73-012b
801473	600/5-73-012c
801473	600/5-73-012d
801473	600/5-73-012e
801481	600/5-74-029
801484	660/2-74-006
801490	650/2-73-014
801500	600/5-74-024
801521	600/5-73-007
801522	600/5-73-011
801577	660/2-74-094
801581-02-2	600/2-76-132
801603	650/2-74-063
801615	650/2-74-027
801622	670/2-75-034

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GRANTS		GRANTS	
801628	600/2-74-005	802254	670/2-73-104
801630	670/2-74-094	802254	670/2-74-008
801633	670/2-75-026a	802269	650/2-74-080
801633	670/2-75-026b	802270	650/2-74-051
801647	660/2-74-034	802291	650/2-74-048
801650	650/1-74-011	802292	600/2-76-156
801658	670/2-73-043	802309	600/2-76-082
801662	660/2-74-064	802310	600/2-75-007
801666	660/2-74-068	802348	660/3-75-015
801673	600/5-75-010	802359	600/3-76-029
801677	670/2-74-024A	802366	650/2-75-012
801678	670/2-74-024B	802396	600/2-76-021
801684	660/2-74-075	802400	670/2-75-021
801799	670/2-75-061	802402	650/2-74-032
801799	670/2-75-062	802411	670/2-75-017
801799	670/2-75-063	802419-01	650/2-74-096
801799	670/2-75-064	802423	600/5-75-008
801800	600/1-76-003	802424	600/2-75-025
801830	670/2-74-073	802441	600/5-73-009
801835	660/2-74-054	802443	600/5-75-005
801837	600/1-76-004	802443	600/5-75-009
801867	660/2-75-027	802444	600/5-74-021
801870	670/5-74-007	802459	600/3-76-038
801870	670/5-74-008	802464	600/3-76-044
801870	670/5-74-009	802475	670/2-74-054
801872	670/2-75-043	802495	670/4-74-005
801876	660/2-74-044	802499-01	650/2-75-023
801944	670/2-75-032	802526	600/2-76-133
801945	650/4-74-041	802532	600/2-76-188
802003	600/2-75-031	802575	600/5-75-017
802005	650/1-74-002	802586	660/2-75-016
802009-01	660/2-74-023	802603-01	600/2-76-184
802022	600/1-76-002	802614	670/2-74-023
802032	660/2-74-011	802621	670/2-75-048
802043	650/1-75-003	802633	600/3-76-027
802084	660/2-75-028	802637	670/2-75-015
802111	600/2-76-063	802647	600/3-75-005
802113	670/2-75-055	802670	600/3-76-059
802168	660/2-75-026	802679-01	600/3-76-074
802174	660/2-75-019	802682	600/2-76-196
802196	600/2-76-194	802684	600/2-76-045
802204	600/2-75-075	802716	670/2-75-041
802205	660/2-75-012	802726	650/2-75-043
802210	600/3-76-051	802730	600/2-76-147
802214	600/3-76-073	802753	600/2-76-017
802219	670/2-74-026	802755-01	600/4-76-020
802219	670/2-75-022	802781	600/2-75-033

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GRANTS	
802836	600/5-75-018
802853-01-0	600/2-76-024
802926	600/2-74-008
802946	600/2-76-163
802966-01	600/3-76-012
802980-01	660/4-75-002
803006-01-1	600/4-76-005
803021	660/2-75-010
803026	660/2-75-025
803046-01	600/2-75-005
803049-01	600/5-75-016
803055-01-0	600/2-75-058
803056	600/5-75-012
803063	600/2-76-113
803063	600/2-76-129
803063	670/2-75-044
803063	670/2-75-059
803063-01	670/2-75-003
803069	670/2-75-065
803099	600/2-76-104
803107-01	600/9-75-006
803111	670/2-75-058
803116-01-0	600/2-76-043
803126-01	600/2-76-192
803186	600/3-76-075
803207-01	600/2-76-178
803226-01	670/2-75-029
803264-01-0	600/2-76-197
803278	600/2-76-100
803294	670/9-75-004
803546	600/9-75-007
803556-01	600/2-75-059
803590	600/9-76-007a
803663	600/9-76-004
803729	600/9-75-005
803992-01	600/2-76-185
804330	600/9-76-015
820529-01	600/3-75-007
INTER-AGENCY	
IAG D4-F451	660/2-75-018
IAG D4-0446	660/2-75-015
IAG D4-0528	600/2-76-007
IAG D4-509	600/1-76-006
IAG 40-191-69	600/2-76-025
IAG-D4-F399	600/2-75-064
IAG-D4-0040	600/2-76-026
IAG-D4-0344	600/4-75-002

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INTER-AGENCY	
IAG-D4-0377	650/2-75-048
IAG-D4-0439	600/1-76-016
IAG-D4-0454	650/2-75-011
IAG-D4-0501	600/2-76-075
IAG-D4-0569	600/2-76-132
IAG-D5-E-721	600/2-76-162
IAG-D5-F721	600/7-76-005
IAG-D5-0416	600/3-76-031
IAG-D5-0416	600/3-76-032
IAG-P5-0685	600/2-76-091
IAG-0153(D)	600/3-75-013
IAG-0153D	600/3-76-076
IAG-0155	600/3-76-056
IAG-069	600/3-76-010
IAG-097(D)	650/2-75-014
IAG-100(D)	600/2-76-126
IAG-133-D	600/2-76-068a
IAG-133-D	600/2-76-068b
IAG-134(D)	600/2-75-006
IAG-141(D)	660/3-75-011
IAG-148	600/5-75-013
IAG-148(D)	600/5-75-002
IAG-152(D)	660/3-75-010
IAG-323	650/3-74-005
IAG0020(D)	650/2-74-038
IAG0077(D)	650/2-74-113
IAG0085(D)	650/2-73-006
IAG0134(D)	650/2-73-051
IAG0139(D)	650/2-74-070
IAG0149(D)	650/2-74-104
IAG0177(D)	650/2-73-034
IAG0199(D)	650/2-74-057
IAG0215	650/2-74-125
IAG085 (D)	650/2-75-004
IAG31990A	650/2-74-049a
IAG4H374(D)	600/5-74-031
IAG40377(D)	650/4-74-030
PL-480:5-533-3	600/2-76-074
TV-30541A	650/2-73-019a
TV-30541A	650/2-73-019b
TV-30541A	650/2-73-019c